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The
CHEMIST AND DRUGGIST

by RETAILER — WHOLESALER — MANUFACTURER

SEPTEMBER 24, 1949

*Chemical
Products
for every Trade*
Greeff

R. W. GREEFF & CO. LTD
12 MARK LANE, LONDON, E.C.2

Index to Advertisers pp. 5 & 6

Have the

WRIGHT

answer ready!

Your customers need no longer be deprived of their **WRIGHT'S**. Easing of controls now gives you the freedom to stock the soap they prefer.

Powerful national advertising is constantly putting over the Wright idea to a public anxious to obtain the finest value in toilet soap.

Specify **WRIGHT'S** on your S.P. forms, and be sure to order sufficient to satisfy all demands.

IDEAL FOR TOILET AND NURSERY

Wright's
Coal Tar Soap



PLAIN facts ABOUT GERMICIDES

REQUIREMENTS	CRESANTOL 3	P.C.M.C.	CRESANTOL 15	P.C.M.X.
High efficiency against 'staphs' and 'typhosus'	R.W.105	R.W.26	R.W.65	R.W.65
Low price per unit of germicidal efficiency	✓	✓	very low priced	✓
Lack of odour	✓	✓	characteristic odour	✓
No colour	Pale straw	✓	reddish	✓
Easy to formulate	✓	✓	✓	✓
Availability	Limited	✓	✓	Much restricted

Cresantol 3—A mixture of benzyl cresols. A pale clear straw-coloured fluid, almost odourless. A first class base for lightly coloured and delicately perfumed antiseptic fluids. R.W. coefficient 105 when suitably formulated.

P.C.M.C. (Chlorocresol B.P.)

A supplementary germicide particularly useful with Cresantol 3. An efficient fungicide which has extensive use as a preservative for pharmaceutical preparations. R.W. coefficient 26 when suitably formulated. Small white or transparent crystals.

Cresantol 15—Mixed chlorinated xylenols. The standard raw material used in manufacture of antiseptic and disinfectant fluids proved over a number of years. R.W. coefficient 65 when suitably formulated. A clear brown liquid with a characteristic odour.

P.C.M.X. (Chloroxylenol B.P.)

R.W. coefficient 65 when suitably formulated. Small white crystals. Odourless. Supplies very much restricted for the present.

For further information on the most suitable application of Monsanto Germicides, write to Sales Department.

MONSANTO CHEMICALS LIMITED,
VICTORIA STATION HOUSE, LONDON, S.W.1.



THE THEME OF OUR CURRENT ADVERTISING CAMPAIGN



Take
your
choice!

JADE
HONEYSUCKLE
SANDALWOOD
MAGNOLIA
BOUQUET
BON-BON

Mary Drake

TOILET AND BATH LUXURY SOAPS

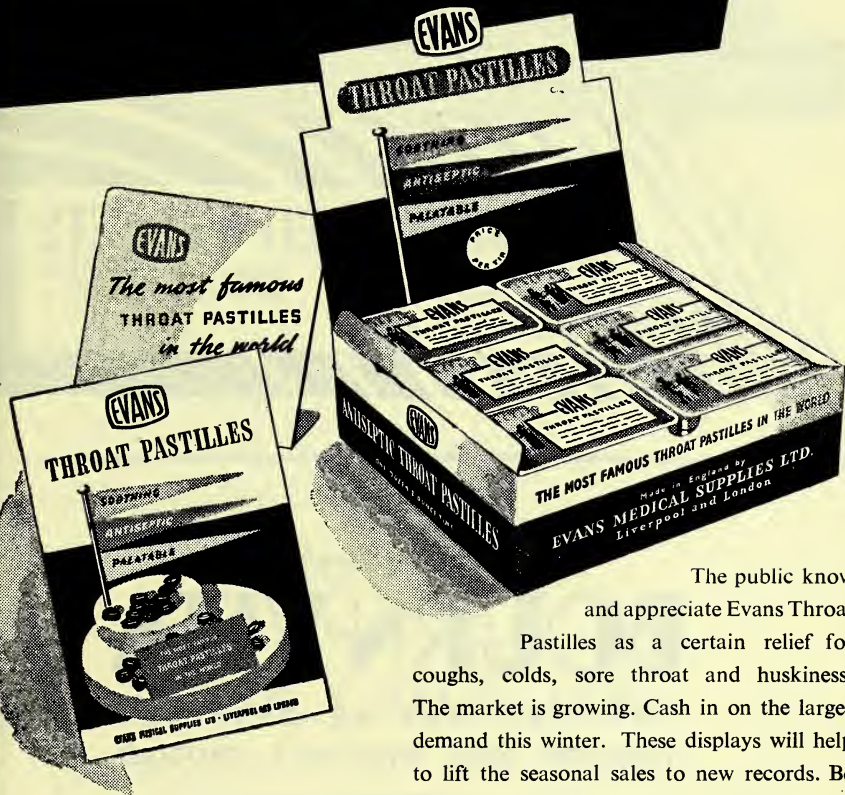
1/3

2/6

**SIX EXQUISITE PERFUMES
SIX DELICATE COLOURS**

Send for samples and prices to
HARRY GREEN LTD., AJAX WORKS, BARKING, ESSEX

Sell more of the 'Most famous Throat Pastilles in the world' through these sales aids



The public know and appreciate Evans Throat Pastilles as a certain relief for coughs, colds, sore throat and huskiness. The market is growing. Cash in on the larger demand this winter. These displays will help to lift the seasonal sales to new records. Be ready with adequate stocks. Display matter as illustrated supplied free.

EVANS

THROAT PASTILLES

EVANS MEDICAL SUPPLIES LTD

LIVERPOOL AND LONDON

252.17/8/49

Take advantage of

EVANS SPECIAL BONUS SCHEME

During September and October next Six tins of Evans Throat Pastilles will be supplied with orders for a minimum of six dozen tins. Larger profits from established line. Order now!



for **COMPRESSED TABLETS**

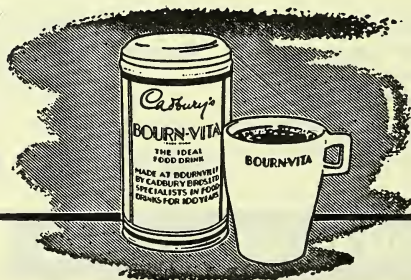
Thomas Kerfoot & Co. Ltd.
Vale of Bardsley, Lancs.

ORAL ... HYPODERMIC
 OPHTHALMIC - SOLVELLÆ

K2

Cadbury's
BOURN-VITA

SUPPLIES MAY BE OBTAINED
 THROUGH YOUR WHOLESALE DRUGGIST



ddis, Ltd.	25	Carter, H. W., & Co., Ltd.	xxxiii	Frankenberg, L., Ltd.	xviii
delphi Manufacturing Co., Ltd.	xiv	Carton Box & Printing Co., Ltd.	iv	Franks, A., & Bartlett Co., Ltd.	xxiii
derosols, Ltd.	xxxiv	Cartwright, W. B., Ltd.	6	Freeman, William & Co., Ltd.	xxix
llen, Stafford, & Sons, Ltd.	19	Cavalcade Beauty Preparations	40	Freudentheil, Smith & Co.	Leader Page
lmer Pharmaceuticals, Ltd.	xv	Cellucotton Products, Ltd.	viii	Fromm, Herbert, Ltd.	ii
lrmstrong Cork Co., Ltd.	xii	Chemist & Druggstore News	xvii		
she Laboratories, Ltd.	xxviii	Citrus Products Co., Ltd.	xxvii		
skit, Ltd.	xxx	Claridge, Peter, Ltd.	46		
spro, Ltd.	xlii	Colgate - Palmolive - Peet, Ltd.	27		
von Tin Plate Printers, Ltd.	xix	Comtesse Laboratories, Ltd.	32		
		Container Recovery Service ...	xiv		
sailey, R., & Son, Ltd.	x	Continental Laboratories, Ltd.	38		
ayer Products, Ltd.	x	Cooper, Son & Co., Ltd.	Leader Page		
ear Honey	xlii				
eechams Pills, Ltd.	45	County Perfumery Co., Ltd.	43		
ell, G., & Sons, Ltd.	xix	Cow & Gate, Ltd.	22		
erdoe & Fish	Col. Supp.	Cox, Arthur H., & Co., Ltd.	8		
ox, W. H.	xxxviii	Craig & Parsons, Ltd.	36		
rannan, S., & Sons, Ltd.	vi	iv Cumming, J. W., & Son	iv		
ristow, T. F., & Co., Ltd.	10	Cuxson, Gerrard & Co., Ltd.	38		
ritish Chemotherapeutic Products, Ltd.	xxxii				
ritish Cod Liver Oils (Hull & Grimsby), Ltd.	xxxv	Daniel, Richard, & Son, Ltd.	13		
ritish Dental Sticks, Ltd.	40	Delavelle, Ltd.	26		
ritish Drug Houses Ltd., The	5	Delf, W. M. (Liverpool), Ltd.	xlii		
ritish Dyewood Co., Ltd.	v	Demuth, R., Ltd.	48		
ritish Felsol Co., Ltd.	v	Distillers Co., Ltd.	36		
rome & Schimmer	iv	iv Disprin	36		
ronchovydryn (1945), Ltd.	x	iv Distillers Co. (Biochemicals), Ltd.	21		
rook, Parker & Co., Ltd.	18	Dolcin, Ltd.	30, 31		
uckley-Bowker Tablet Co., Ltd.	vi	Domestos, Ltd.	xxii		
		Dunlop Rubber Co., Ltd.	8		
		Dunn Brothers Succrs., Ltd.	ii		
urrough, James, Ltd.	Leader Page	Eades Anodyne, Ltd.	xxxvii		
urroughs Wellcome & Co.	9, 49	Edge, Wm., & Sons, Ltd.	xix		
utler & Crispe	33	Edme, Ltd.	xl		
		Enna Nursery Specialists	x		
adbury Bros., Ltd.	4	Evans Medical Supplies, Ltd.	3		

(continued overleaf)

Prvt/T/1a

INDEX (Cont'd.)

Imperial Chemical (Pharmaceuticals), Ltd.	iii	Napp, H. R., Ltd.	23	Sidnick, M., & Co., Ltd.	Leader Page
Industrial Fluids, Ltd.	44	National Glass Works (York), Ltd.	ix	Songo Spa Brushes, Ltd.	
International Chemical Co., Ltd.	xxxix	Nervone	26	Spencer, I., & Co. (Aberdeen), Ltd.	
Jeffreys, Miller & Co., Ltd.	36	Newspaper Society, The	39	Standard Synthetics, Ltd.	
Jones & Bailey, Ltd.	xl	Niblett, C. P.	vii	Stemco, Ltd.	xxx
Jones, W. H., & Co. (London), Ltd.	Leader Page	Oakfield & Co.	48	Sutcliffe & Clarkson, Ltd.	
Kay Bros., Ltd.	28	Orridge & Co.	Col. Supp.	Teasdale & Co., Ltd.	xxxvi
Kearsley, C. & G., Ltd.	viii	Ortho Pharmaceuticals, Ltd.	xxv	Tintex Dyes	x
Kellys, J., (London), Ltd.	vi	Owbridge, W. T., Ltd.	41	Toni Gillette, Ltd.	xx
Kerfoot, Thomas, & Co., Ltd.	4	Oxo, Ltd.	50	Trapow, D., & Co., Ltd.	
Klimpton Brothers, Ltd.	20	Peboc, Ltd.	xxxiv	Twinkle Headache Powders	Leader Page
Kings of Kingsbury (Sales), Ltd.	xxxvi	Pentecon, Ltd.	iv	United Chemists Association, Ltd.	
Knox, John (Stoke-on-Trent), Ltd.	xxx	Perihel, Ltd.	xii	Velouty de Dixor	4
Liverpool School of Pharmacy	Leader Page	Petrushkin, M., Ltd.	17	Velena	xx
Loveluck Edwards & Co.	Leader Page	Pharmaceutical Specialities (May & Baker), Ltd.	24	Velvet Crepe Paper Co., Ltd.	4
Macdonald & Son, Ltd.	16	Picker, Myram, Ltd.	xv	Waide, Thos., & Sons, Ltd.	1
MacLennan Brand Products, Ltd.	xxxviii	Porosan, Ltd.	vi	Wander, A., Ltd.	2
Marks, Leslie & Co., Ltd.	48	Porteus, Geo., & Son, (Leeds), Ltd.	47	Wallis Laboratory, Ltd., The	Leader Page
Maw, S., Son & Sons, Ltd.	11	Potter & Clarke, Ltd.	xxvi	Wernet Dental Manufacturing Co.	xxxv
Mitchell, L. A., Ltd.	iv	Pratt, Sir John, & Co.	xxvi	Westminster Laboratories, Ltd.	2
Monsanto Chemicals, Ltd.	1	Rankin Bros., & Sons	Leader Page	Whitakers (Kendal), Ltd.	xxx
Moore Medicinal Products, Ltd.	xxxii	Richardson, J., & Co. (Leicester), Ltd.	40	White, J. F., & Co., Ltd.	xl
Morley, Rogers & Co., Ltd.	xxxviii	Rivet, S. & D., Co., Ltd.	42	Williams, Charles & Co.	vi
Moring, Alex, Publishers	viii	St. Andrew Mills, Ltd.	xi	Wilson & Mansfield, Ltd.	
Mountmellick Products, Ltd.	xxxii	Sacker's Hygienic Comb Co., Ltd.	xviii	Windschuegl, Chas. H., Ltd.	i
		Sandoz Products, Ltd.	35	Woolley, J., Sons & Co., Ltd.	1
		Savory & Moore, Ltd.	50	Wright, Jayman & Umney, Ltd.	Cover
		Scruton, Oscar, & Co., Ltd.	xxxii	Zeal, G. H., Ltd.	2
		Seram Products, Ltd.	xvii	Zems, Ltd.	xxv
		Sessions, Wm., Ltd.	Leader Page		
		Seven O'clock Razor Blades	xvi		

STOCK · DISPLAY · SELL



MOORLANDS

W. B. CARTWRIGHT LTD · RAWDON · LEEDS

KEEPS

SALES UP

Ucal

KEEPS

PESTS DOWN

DOPO-PLUS

D • D • T

Destroys quickly **Flies, Fleas, Bugs, Beetles, Moths, Cockroaches, Ants, Crickets, Wasps,** and similar Pests by simply sprinkling freely in the infected places.

Fleas and Mosquitoes. A little Powder sprinkled on the window sill or on the fire will keep these pests away.

A GUARANTEED Ucal PRODUCT

Packed by

UNITED CHEMISTS ASSOCIATION LTD. CHELTENHAM

CENTURY-OLD EXPERIENCE IN SCIENTIFIC *PILL and TABLET making*

PACKED OR IN BULK • STANDARD OR SPECIAL FORMULÆ
COATED OR UNCOATED • GROSSES OR MILLIONS

*Those who contemplate production of
a Pharmaceutical Proprietary are invi-
ted to consult the advisory service of*

ARTHUR H. COX & CO. LTD.
BRIGHTON, 7

*The Specialists backed by most
modern machinery and techniques*

WHEN YOU SELL DUNLOP . . .



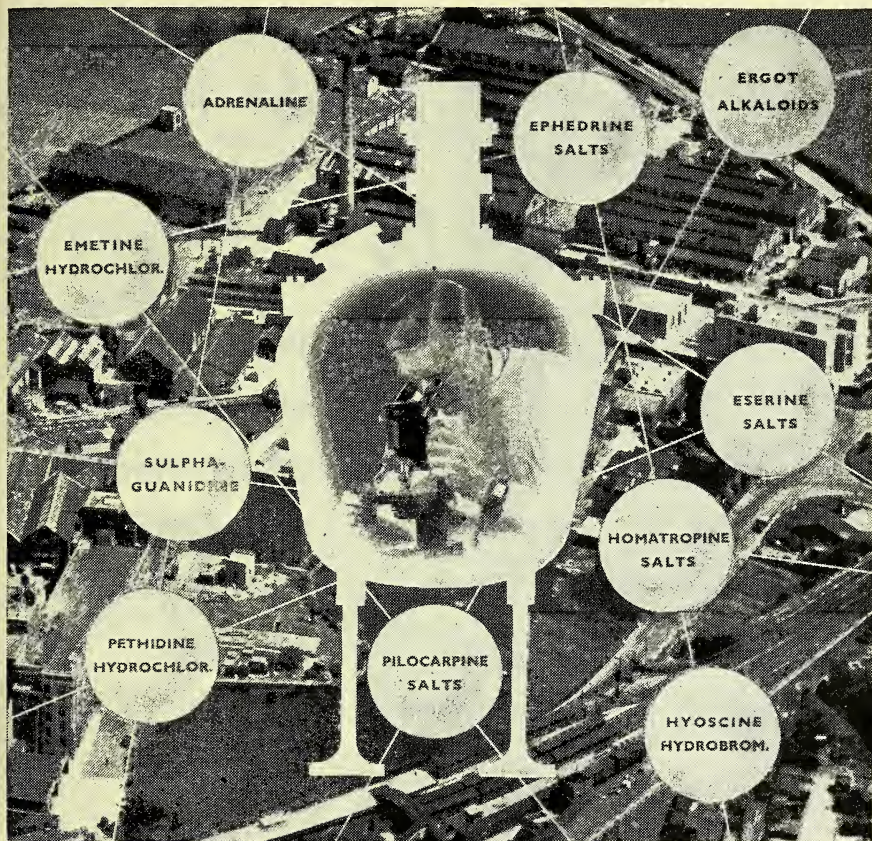
**you sell
lasting
goodwill**

These three famous
Dunlop Hot Water Bottles
—the Moulded All
Rubber, the Moulded
Fabric Insertion and the
Hand Made Bottle—are
obtainable from your usual
wholesaler.

**Dunlop Moulded Fabric
Insertion built like a tyre**

STOCK UP NOW WITH **DUNLOP** HOT WATER BOTTLES

The Name your Customers trust

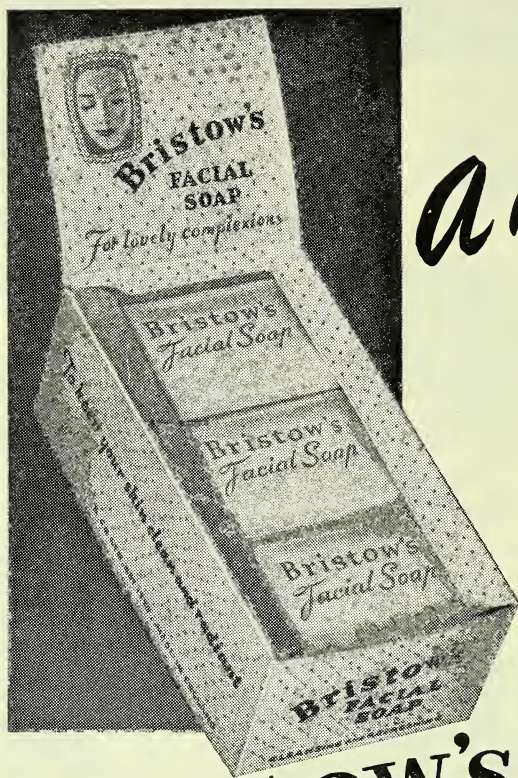


For over **FIFTY** *years*

the Wellcome Chemical Works have been producing chemicals of superlative quality. Many of these can now be supplied to other manufacturers on particularly advantageous terms. In addition, we invite inquiries regarding the preparation of fine chemicals which are not already on our list. Long and extensive experience in the field of chemical manufacture places us in an exceptional position to meet the special needs of individual customers.



'B.W. & CO.' *Fine Chemicals*



A new line—

with an
established
reputation
for Quality
behind it . . .

Bristow's FACIAL SOAP

A bland, creamy Soap — to cleanse the skin, efficiently, to care for it, gently—that's the idea behind this new Bristow's Product. Remember the reputation Bristow's have as makers of fine soaps—and recognise that here is a new line that's bound to be a *live* line. Place your order today!

TERMS: FACIAL SOAP 3-OZ. SIZE.

Retail selling price per tablet, including Purchase Tax . . . 11½d.

Standard Trade Terms 6/8d. per doz. Purchase Tax per doz. 2/2¾d.

T. F. BRISTOW & CO. LTD., BOSTON MANOR ROAD, BRENTFORD, MIDD. T.12



MAW'S AUTUMN EXHIBITIONS

*are being held throughout Great Britain
during the next few weeks*

WE SHALL BE SHOWING AN EXCELLENT RANGE
OF CHRISTMAS MERCHANDISE AND SEASONAL
SUNDRIES. MOST ITEMS ARE NOW OF MAW'S
PRE-WAR STANDARD AND QUALITY, BACKED BY
AMPLE STOCKS FOR PROMPT DELIVERY

**DON'T FAIL TO VISIT
MAW'S EXHIBITION
IN YOUR LOCALITY**

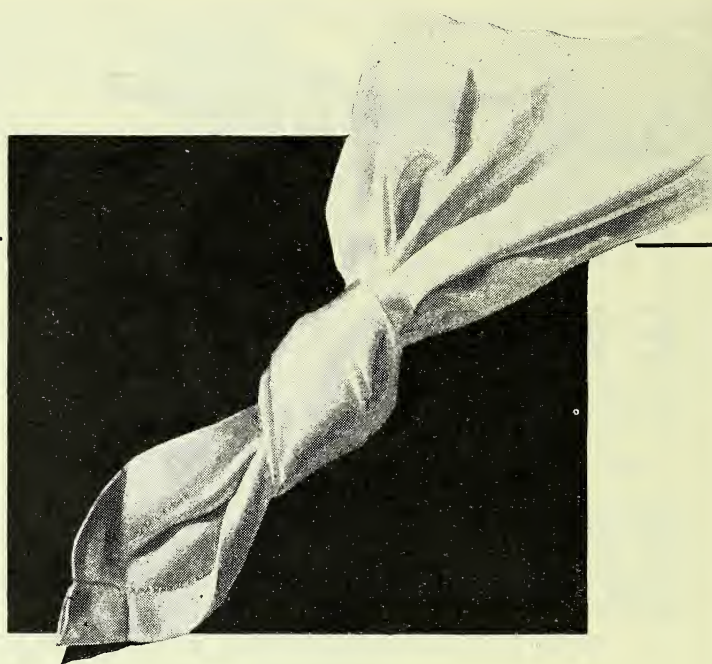
Monday SEPT. 26 — Friday SEPT. 30 (incl.)

CHESTER	-	BLOSSOMS HOTEL
BRADFORD	-	WEDGWOOD HOTEL, Claremont
EDINBURGH	-	ROYAL HOTEL (Princes St.)
LINCOLN	-	SARACENS HEAD HOTEL
CARDIFF	-	PARK HOTEL

Open Daily until 11 o/c P.M.

FURTHER LIST NEXT WEEK

S. MAW SON & SONS LTD. BARNET HERTS.



*It's worth
remembering!*

WOOLLEYS

FOR EVERYTHING
PHARMACEUTICAL

1796 — 1949

wg98

JAMES WOOLLEY, SONS & CO. LTD., Victoria Bridge, MANCHESTER, 3



PROPRIETARIES
SUNDRIES DRUGS
TABLETS & PILLS

FOR
CHEMISTS

*Manufacturing
Chemists*

Head Office & Works Mansfield Road Derby Telephone 4266 (4 lines) Branch Warehouse Grosvenor St. Ashton - Lyne Telephone 2816 (2 lines)

Bright flaming heat=full fire

DU BARTAS

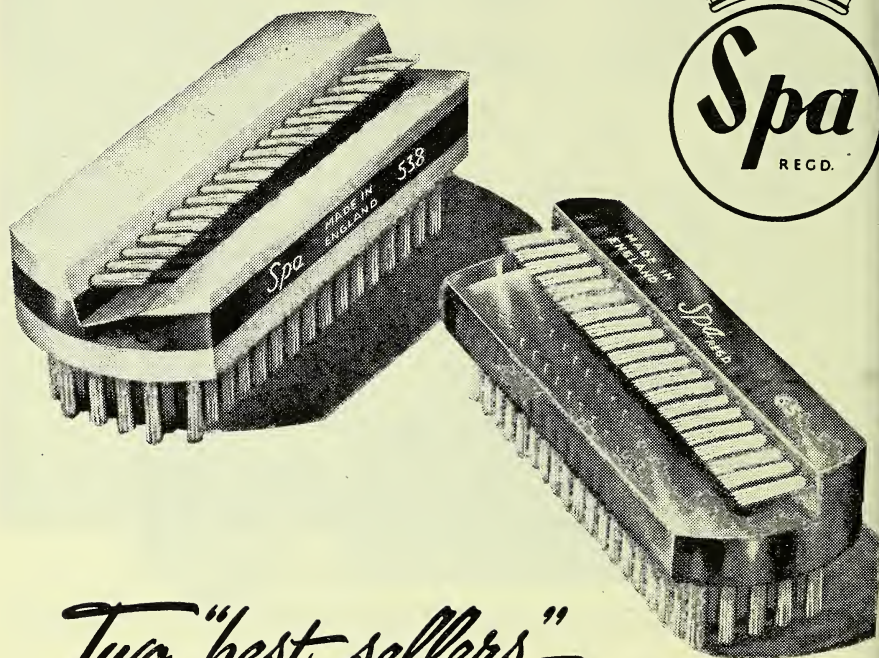
Just as the power of the oxy-acetylene flame is vital to modern construction, so the power of good printing is essential to modern business. What is more, in good printing, as in welding, so much depends upon the skill and experience of the craftsman. As your ambassador-at-large, wherever it is seen, your printed word must be of the highest standard at all times.

For more than 70 years we have specialised in printing for the pharmaceutical profession, and if you will consult us when you are next planning labels, cartons, showcards, brochures, catalogues, etc., etc., we shall be delighted to place our skill and experience at your disposal.

THOMAS WAIDE & SONS, LTD.
KIRKSTALL HILL, LEEDS, 5

Print Specialists for over 70 years





*Two "best sellers"—
in a buyers' market*

Each is a variety of sparkling colours — each with its manicure row — each in its clear acetate container.

The SPA Nailbrush No. 538 — the larger man-sized brush retails at 5/6d.

The Smaller brush — SPA No. 65 — retails at 4/6d.

**The name SPA on a brush guarantees
Quality to your customer — PROFIT to you**

MADE BY

SPA BRUSHES LTD.

FREEMAN WORKS • CHESHAM • BUCKS.



ESTABLISHED 1820

We believe
our many friends in EIRE will welcome
the opening of

A DEPOT

at

**1 MOUNT BROWN
DUBLIN**

Telephone : 51096-7

on

MONDAY, 3rd OCTOBER, 1949

. . . where comprehensive stocks of our
Drugs, Galenicals and Medicinal Pro-
ducts will ensure prompt delivery to old
and new customers in all parts of EIRE,
and the great advantage of the col-
lection of empties.

HARKER, STAGG & MORGAN LTD

Phone. STEPNEY GREEN 2022

EMMOTT STREET, LONDON, E.1.

Ssh . . .

THEY'RE TALKING ABOUT SILCOT



It's the comfort of Silcot which has set women talking. They're talking about the soft cotton wool. The smooth knitted covers. The stitched loops.

They're saying they prefer Silcot for extra comfort. And that they like the stitched loops for extra safety. Their opinion is "Silcot is Soft . . Safe . . Super."

That's *their* side of the story. And that's the side which is being stressed in the

new series of Silcot advertisements in the women's magazines.

Your side of the story is that these advertisements, appearing in magazines, with a circulation of over 9,000,000, are going to help Silcot sales. Stock a nationally advertised line which brings constant repeat business.

MORE women will be reading about SILCOT

MORE women will be talking about SILCOT

MORE women will be buying SILCOT

SILCOT

SANITARY TOWELS



the sulphonamide of choice in gastro-intestinal infections

In common with its succinyl analogue, phthalylsulphathiazole is only sparingly absorbed from the gastro-intestinal tract. Its advantages lie in its greater bacteriostatic activity and the retention of this activity to a greater extent in the presence of watery diarrhoeas. Phthalylsulphathiazole is recommended as the sulphonamide of choice in the treatment of the acute phase of bacillary dysentery, the cure of the convalescent carrier state, the treatment of symptomless carriers and for prophylaxis in those exposed to infection. It is effective for these purposes, not only in Shiga and Flexner infections, but also in Sonne infection, against which sulphaguanidine is relatively ineffective. It is also used in surgery of the intestinal tract, both before and after operation for the prophylaxis and treatment of peritonitis, faecal fistula and wound infection of patients undergoing such operations as resection of the rectum and of the colon. Its use is suggested in the treatment of ulcerative colitis and gastro-enteritis of the newborn.

Containers of :

25 x 0.50 Gm. tablets at 6s. 9d.
100 x 0.50 Gm. tablets at 26s. 3d.
500 x 0.50 Gm. tablets at 96s. 0d.
100 Gm. powder at 52s. 0d.
500 Gm. powder at 191s. 6d.

All prices
exempt P.T.

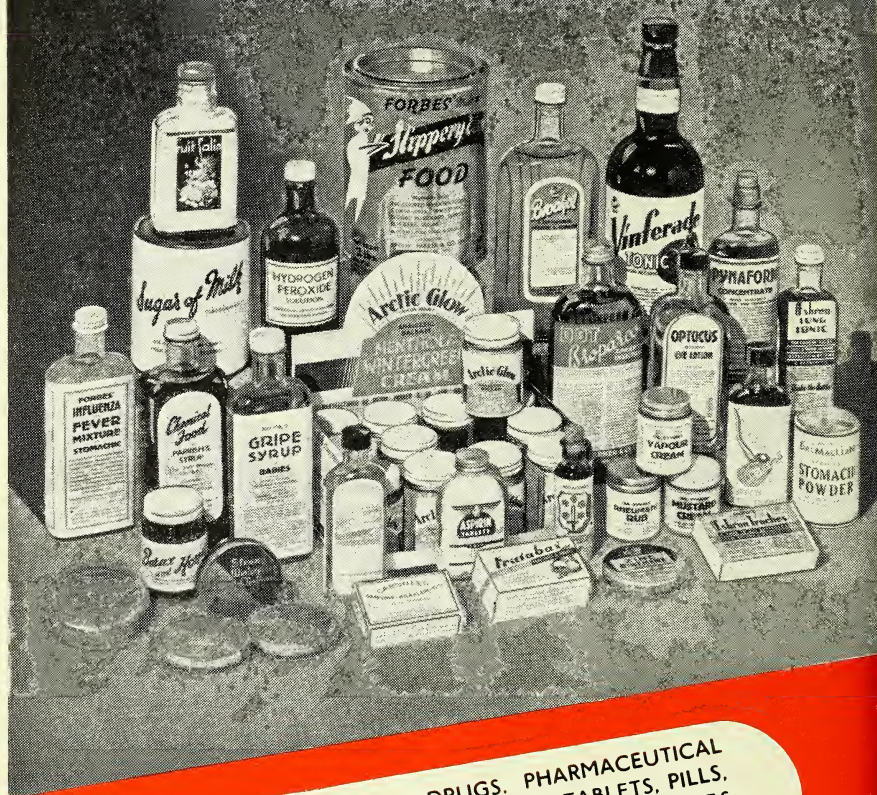


manufactured by

MAY & BAKER LTD

distributors **PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD. DAGENHAM**

FOR HOME & EXPORT MARKETS



Specialists in VEGETABLE DRUGS, PHARMACEUTICAL
CHEMICALS, GALENICALS, COMPRESSED TABLETS, PILLS,
PACKED GOODS. ALSO CAPSULES, SUNDRIES
DRYSALTERIES, DISINFECTANTS, ETC.
PHOTOGRAPHIC APPARATUS, CHEMICALS & SUNDRIES



Brook, Parker & Co. Ltd.

MANUFACTURING CHEMISTS - ASHFIELD - BRADFORD - ENGLAND
TELEGRAPHIC ADDRESS: BROPARCO, BRADFORD - TELEPHONES: BRADFORD 28237-3-9



Stafford Allen's

Founded 1833

EUCALYPTOL

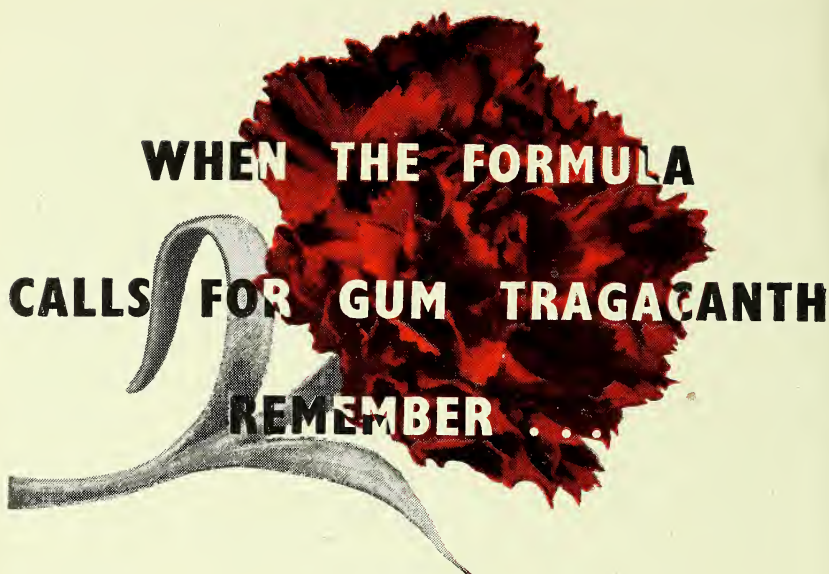
Manufactured from carefully selected Eucalyptus Oil, producing a high class product of unvarying quality.



Send us your enquiries

STAFFORD ALLEN & SONS LTD., Wharf Rd., London, N.I. CLerkenwell 1000

TAS/AL3J2



Remember that if you cannot completely depend on the reliability of any one ingredient in your formula, the quality of your production is being jeopardised. Gum tragacanth, being a natural product, with natural imperfections and variations, can create production problems of this kind, *unless you make sure that they don't happen*, by specifying RED CARNATION the *stable* stabiliser.

RED CARNATION Brand Powdered Gum Tragacanth is gum tragacanth in a standardised form — uniform as regards viscosity, colour and fineness of powder. It is ground by a special process to ensure tenuity, it is tested at every stage of processing, and it is finally packed in airtight



tins, in four standard grades, so that you can be sure of receiving fresh gum tragacanth of exactly the same quality and characteristics every time you re-order. A 12 pp. illustrated booklet, "The Story of Gum Tragacanth" will be sent free on request by KIMPTON BROS. LTD., (*Established 1882*) 110 FENCHURCH STREET, LONDON, E.C.3. Telephone: ROYal 5544-5-6-7

PHARMACEUTICAL FELLOWSHIP

The British Pharmaceutical Conference brings together in discussion the men of pharmacy as fellows in a many-sided yet corporate endeavour—the investigation, development, production, presentation and distribution of substances for the treatment of disease.

As therapy advances, in its use of vitamins, hormones, sulphonamides and antibiotics for example, an ever-increasing number of technicians hitherto outside pharmacy is collaborating with the pharmacist. With this collaboration comes mutual understanding.

In our factory and laboratories we employ members of an interesting variety of professions and skills in a team of which pharmacists are an integral part.

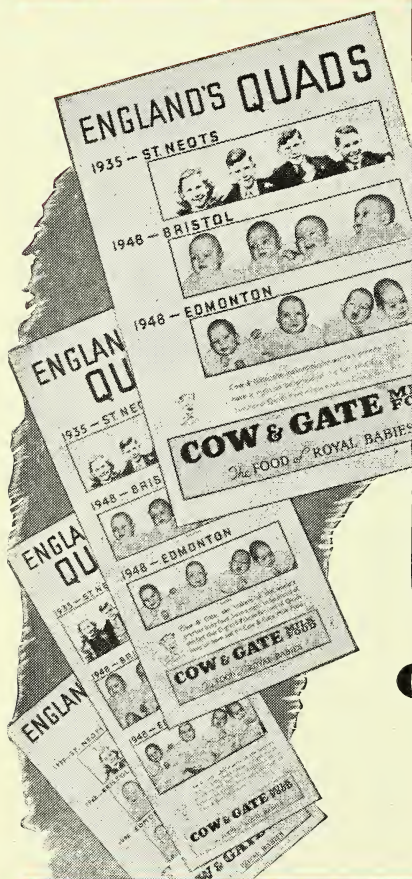
THE DISTILLERS COMPANY (BIOCHEMICALS) LTD.

FLEMING ROAD

SPEKE

LIVERPOOL

England's Quads



ST. NEOTS 1935 BRISTOL 1948 EDMONTON 1948

The nation-wide advertising campaign informing the general public that all the three families of England's Quads have been fed on Cow & Gate has aroused even greater interest in this famous baby food.

Cow & Gate are now able to supply attractive display material and chemists are invited to share in this successful campaign by writing to :—

COW & GATE LTD

Dept. C.D.

GUILDFORD
SURREY

*A profitable
bonus offer*

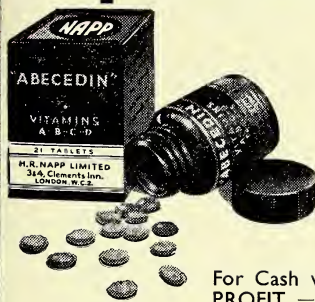
"ABECEDIN"

TABLETS

On direct orders for 2 doz. x 21 "ABECEDIN" Tablets we will give $\frac{1}{4}$ doz. bonus packs FREE. An additional $2\frac{1}{2}\%$ discount will be allowed for Cash with Order.

The $2\frac{1}{4}$ doz. packs will be supplied in an attractive outer for Counter or Window Display.

This offer shows the following advantageous returns:—



COST :	
2 doz. at 4/3	= £5 2 0
Less 25%	= 1 5 6
	<hr/> £3 16 6

RETURN :	
$2\frac{1}{4}$ doz. at 4/3	= £5 14 9

PROFIT :	
£1 18s. 3d.	= { 50% on Outlay.
	{ 33 $\frac{1}{3}$ % on Turnover.

For Cash with Order—	{ 54% on Outlay.
PROFIT = £2 0s. 2d.	= { 35% on Turnover.

H. R. NAPP LIMITED
3 & 4, CLEMENTS INN, LONDON, W.C.2.

*on a rapid
seller*

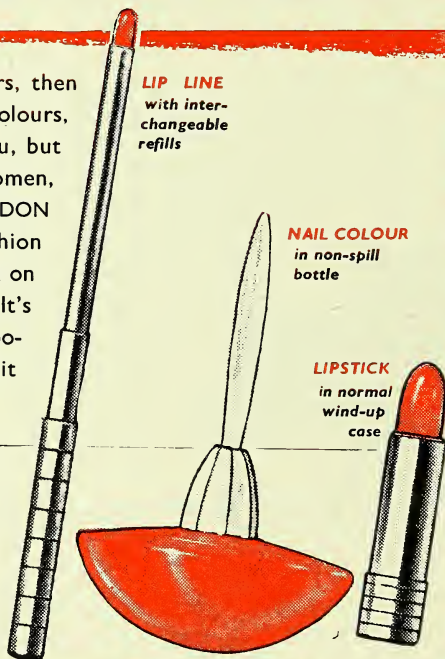
There's 'plenty' in colour matching for **YOU!**

GALA OF LONDON's LIP & NAIL COLOURS

for every fashion shade

Matching lip to nail colours, then keying them to clothes colours, may sound frivolous to you, but every day more and more women, persuaded by GALA OF LONDON advertising, cajoled by fashion and beauty editresses, look on colour matching as a 'must.' It's a good, sound business proposition for GALA stockists as it means **multiple sales!**

When customers ask for GALA Lipstick, offer them Nail Colour in the same shade... when they ask for Nail Colour, sell them a matching Lipstick or Lip Line. In short, make two GALA sales where you used to make one!



LIP LINE
with inter-
changeable
refills

NAIL COLOUR
in non-spill
bottle

LIPSTICK
in normal
wind-up
case

GALA OF LONDON

All enquiries or orders to :

DISTRIBUTORS : MYRAM PICKER LTD., HOOK RISE, SURBITON, SURREY



SUPPLIED FREE
WITH EVERY
ORDER FOR 1
DOZEN. NONEED
TO APPLY FOR IT

This display is earning chemists 11/8 a week

THIS new display card for Addis '88' measures only $5\frac{3}{4}$ " \times $4\frac{3}{4}$ ", but it does a big job for chemists who use it. It puts the powerful advertising campaign for Addis '88' in *Radio Times* and *News of the World* to work for you. With its aid many small chemists are selling a dozen

of these very attractive brushes a week—and that means 11/8d. profit. No other denture brush is nationally advertised. No other denture brush shows such a generous profit. It's the most popular brush and the most profitable brush. Price 23/4d. a dozen plus P.T., to sell at 3/6d. each (incl. 33 $\frac{1}{3}$ % P.T.).

Addis 88

THE ONLY NATIONALLY
ADVERTISED DENTURE
BRUSH

MADE BY ADDIS LIMITED, HERTFORD. MAKERS OF THE FIRST TOOTHBRUSH IN 1780
C

Are You Stocking?

NERVONE

SALES STEADILY INCREASING!

INCREASED advertising is now in force and more and more of your customers will ask you for "Nervone"—the new biochemic remedy for nervous disorders.

You should make sure of your share of this profitable business by stocking and displaying. Show material gladly sent free on request.

PATA

Retail	(Including Tax)	Wholesale
3/3, 5/6, 22/-		28/5, 48/-, 192/-
per packet		per doz.

"NERVONE"

Cecil House, Holborn Viaduct, London

Pack and Distribute

ISCO BRAND

MEDICINAL COD LIVER OIL

UNDER YOUR OWN LABEL
like other discriminating buyers
and watch

YOUR PROFITS GROW

Backed by a reputation and
experience covering half a century

Isaac Spencer & Co. (Aberdeen) Ltd.
Albert Quay · Aberdeen

Phone :
Aberdeen 20202
(Four lines)

Grams :
EXTRACTOR
ABERDEEN

DIARY FRIDAY SEPT. 2nd 1949

met journalist friend Liz just back from Paris dress shows. Over coffee told me designers still arguing about long versus short skirts. thinks they'll stay longish. Her trips to France have made her connoisseur of perfume.. admired mine - said obviously I'd been shopping in Paris too... astonished when showed her my 3/6 travel size of Delavelle's "Blue Orchid"... said it was the best news she'd unearthed in years.

LATEST NEWS
DELAVELLE
"BLUE ORCHID"
ONLY 3/6!

DELAVELLE
London Paris New York

This striking persuasive and unusual advertising for Delavelle "Blue Orchid" and "by Candlelight" Perfumes is appearing at fortnightly intervals from now right through to Christmas in national and local papers with a combined readership of 8 million. Designed not merely to make them known, but to SELL Delavelle perfumes.



the basic selling theme will be repeated again and again in many new and fresh ways. Don't wait till our representative reaches you . . . he may not be due for some time and you will miss profitable sales. WRITE NOW for list and particulars of valuable cash/quantity extra discounts.

DELAVELLE

38/46 ORSMAN RD., LONDON, N.1

Telephone: Clerkenwell 6066
Telegrams: Parfumerie London

Here's your chance to handle **HALO**, America's biggest selling shampoo

**HALO SHAMPOO ENTERS THE
BRITISH MARKET WITH A RECORD
THAT IS UNEQUALLED BY ANY OTHER
LIQUID, CREAM OR POWDER SHAMPOO**

These are the facts :

- ★ *In America more women ask for Halo than for any other shampoo*
- ★ *Biggest share of the 40 million dollar shampoo business in America is held by HALO*

Exciting, outspoken advertisements in the popular press will introduce HALO to the women of Britain. To tie up with this press advertising we are supplying you with attractive eye-catching showcards for your counters. Don't delay in letting your customers know you too are a HALO stockist. See our representative when he calls or write to us direct.



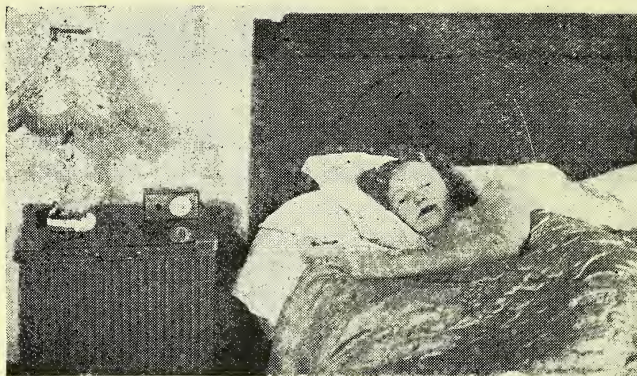
WOMEN WANT HALO BECAUSE

- 1** Not a soap, not a cream — HALO cannot leave dulling film.
- 2** HALO gives fragrant, soft water lather even in hardest water.
- 3** HALO leaves hair lustrously soft, easy to manage — with colourful natural highlights!

HALO Shampoo

Made by COLGATE-PALMOLIVE-PEET LTD.,

145 CHARING CROSS ROAD, LONDON, W.C.2



**RADIO INTERFERENCE
FREE IN ACCORDANCE
WITH B.S.S. 800**

ELECTRICALLY-HEATED BLANKETS

- SNAP ACTION THERMOSTATS
- INTERNAL SUPPRESSOR
- LARGE SIZE : 52" x 39"
- WOVEN HEATING ELEMENT

Write for full details of our range

TWELVE MONTHS GUARANTEE : 48 HOURS AFTER-SALES SERVICE

SUTCLIFFE & CLARKSON LTD.
WHITTLEFIELD MILL · BURNLEY · TELEPHONE : 4160



ZEAL

Clinicals

**The Choice
of Experts**

**BRITISH
MADE**

NO HIGHER
IN PRICE THAN
NONDESCRIPT
MAKES



Also Household, Bath
and Works Thermometers,
the best of their kind

G. H. ZEAL LTD.
LOMBARD RD., MORDEN RD.,
LONDON, S.W.19
Phone: Liberty 2283-45





Keen buyers buy

KAY'S

BRAND
LINSEED
COMPOUND

**and Kay's Compound Pastilles in 50/- lots.
Mixed parcels are very profitable**

2 dozen 1/7 Kay's Linseed Compound	10/3 dozen
	£1. 0. 6
1/2 dozen 3/9 Kay's Linseed Compound	25/- dozen
	6. 3
6 dozen 1/11 Kay's Compound Pastilles	12/- dozen
	3. 12. 0
	4. 18. 9
Add Purchase Tax	1. 13. 9
	6. 12. 6
Selling Price	9. 7. 3

From your wholesaler or direct from
KAY BROTHERS LTD., REDDISH, STOCKPORT



A Valuable Supplementary Vitamin Food

*for Infants, Children & Adults
at all Seasons*

BY presenting valuable nutritive elements and important vitamins in a delicious form, 'Vimaltol' offers special advantages in everyday practice to the physician. With its delightfully sweet orange flavour 'Vimaltol' is readily acceptable to every patient.

'Vimaltol' is made from specially prepared malt extract of high protein content, yeast—one of the richest sources of Vitamin B—and Halibut Liver Oil an important source of vitamins A and D. It is also fortified with additional vitamins and mineral salts, and is deliciously flavoured with orange juice.

'Vimaltol' has, therefore, an important therapeutic value where the deficiency of certain food elements in the dietary has resulted in abnormal conditions. Its regular use assists the development of the growing organism and the maintenance of correct metabolism while raising the general resistance against infection.

'Vimaltol' has thus a very wide application in practice for children and adults of all ages. It can be recommended with advantage at all seasons.

On the **PATA**

Wholesale Prices:

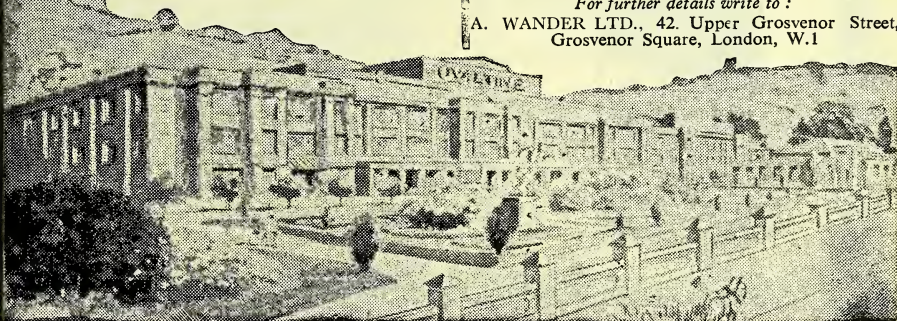
1 lb. Jars 27/- ; 2 lb. Jars 49/6
(Exempt from Purchase Tax)

Retail Prices : 1 lb. Jars 3/- ; 2 lb. Jars 5/6

For further details write to :

A. WANDER LTD., 42, Upper Grosvenor Street,
Grosvenor Square, London, W.1

*A
Quality Product
from the
Ovaltine
Research
Laboratories*



THE DOLCIN

FOR SIX WEEKS

13 UNITS TO

ON ALL ORDERS PLACED

THE sales of Dolcin, the new American discovery for relief in Rheumatic disorders, have climbed rapidly since our first announcement to the public.

Consistent National and Provincial advertising has introduced Dolcin to Rheumatic sufferers all over the country. Increasing numbers day by day are discovering the remarkable relief that Dolcin provides.

From 1st October this advertising will be **DOUBLED** to include practically every important National and Provincial Daily and Sunday newspaper and a wide selection of leading magazines and periodicals, in order to link up with the

SPECIAL DOLCIN AUTUMN BONUS DISPLAY SCHEME.



The per issue circulation of these publications is in excess of 42,000,000. So that you can share in this great advertising effort, we invite you to make use of the Dolcin window display shown here.

Show this display and the counter leaflet dispenser for a period of 14 days, and your orders for Dolcin 100's will be executed throughout the above period

BONUS OFFER!

FROM 1st OCT. 1949

THE DOZEN

DURING THIS PERIOD

at the rate of 13 to the dozen. Dolcin advertising, allied to your display, will mean more Dolcin business and an additional profit of 8/- on every dozen.

Bonus orders should be sent direct to us but they will be invoiced through and despatched by your own wholesaler.

Full details of the Dolcin bonus offer and display material are being sent to you in the mail. If by any chance you have not received yours by 1st October, please write without delay.



USE THIS DISPLAY

**and identify
yourself with
advertising
directed to
42,000,000
readers**

DOLCIN

Reg. Trade Mark

THE NEW SUCCINATE-SALICYLATE THERAPY IN RHEUMATIC DISORDERS

Sole Distributors: TAMPAX LTD., 110 Jermyn Street, London, S.W.1.



'SLEEK' plastic adhesive strapping has sales appeal. Display it on your counter with the attractive showcards and introduce it to your customers.

The 'SLEEK' Manual gives valuable sales hints and was produced to help you and your staff know all about the product. Ask our representative for copies, or these will be sent on receipt of a post card or 'phone call.

'SLEEK' will give you a quick turnover. Plentiful supplies are available in flesh colour or white.

1" x 5 yard spools . . . Retail 2/- each
2" x 5 yard spools . . . Retail 3/6 each

'Sleek'

TRADE MARK

PLASTIC ADHESIVE STRAPPING

Herts Pharmaceuticals Ltd., Welwyn Gdn. City, Herts.
Telephone: Wel. Garden 3333 S14

NOW NATIONALLY ADVERTISED

For years there has been a big demand for this old-fashioned well-known remedy. Now that we have embarked on an extensive advertising campaign in the Press and women's publications the demand will be greater than ever. Be sure you are well stocked—

NURSE HARVEY'S MIXTURE



Send in your order now to:

O. SCRUTON & CO., LTD.
4 BARKER LANE, YORK

Mai Daye

COMPLEXION SOAP

3 oz.
8d.6 oz.
1/4

MADE BY

Comtesse Laboratories Ltd

CHATHAM PLACE, LONDON, E.9

TELEPHONE

AMHERST 5640

BUTLER & CRISPE

L. H. CRISPE

ESTAB. 1777

R. P. GOWER

SURGICAL DRESSINGS

CHEMISTS' SUNDRIES

TOILET GOODS

PRESCRIPTIVE PHARMACEUTICALS

FOR THE

NATIONAL HEALTH SERVICE

ARE

PROMPTLY DESPATCHED

BY

MOTOR · RAIL · POST

SEND YOUR ORDERS OR ENQUIRIES TO:—

80/84 CLERKENWELL ROAD · LONDON · E.C.1

TELEPHONE: CLERKENWELL 3060 (15 lines)

GRAMS: 'ALLUWANT' SMITH, LONDON

Aspirin Therapy brought to Perfection.



MAGSILATE

ANALGESIC, ANTIPYRETIC TABLETS

- Aspirin fully protected against deterioration
- Quicker absorption
- More effective action
- No gastric disturbance
- Palatable to eat
- No water required

MAGSILATE is a CF product, sold *through chemists only*. Terms are profitable. Attractive showcards, informative literature and free samples supplied with orders.

Supplied in two sizes : 4d. & 1/10d. (incl. P. Tax).

Dispensing packs : 125 Tablets, 9/- net and 500 tablets, 35/- net (free of P. Tax).

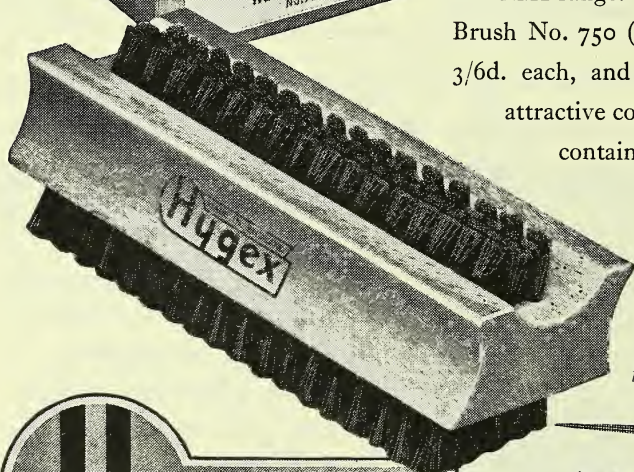
A product of **WESTMINSTER LABORATORIES LTD.**, Chalcot Road, London, N.W.1.





*Another fast-selling
Hygex line!*

Designed in the finest post-war style, with hard-wearing bristle top and bottom, this HYGEX Nail Brush will sell fast—like the other popular brushes in the heavily-advertised HYGEX range. The HYGEX Nail Brush No. 750 (as shown) retails at 3/6d. each, and is supplied in an attractive counter display carton containing $\frac{1}{2}$ doz. brushes.



*Your wholesaler
will show you
the complete range.*

Hygex

**NAIL
BRUSHES**

Manufacturers :

HENDERSON BROS. & CO. LTD.

BURWELL ROAD, LONDON, E.10. PHONE : LEYTONSTONE 5202/3

Introducing . . .

“MESONTOIN”

A marked advance in the treatment of

EPILEPSY

GRAND MAL, JACKSONIAN AND
PSYCHOMOTOR ATTACKS

Mesontoin offers considerable advantages over other hydantoins, in that the incidence of side effects is low, the dosage may be maintained at a high level, and that more effective control is obtained in resistant cases

Loscalzo, A. E. : J. Amer. med. Ass., 1947, 135, 496.

Lennox, W. G. : Amer. J. Psychiat., 1946, 103, 159.

Harris, T., and Otto, J. : Texas Sta. J. Med., 1947, 43, 328.

Retail Price :

Bottles of 100 tablets 9/9d. each	} Exemption Purchase Tax
Bottles of 1,000 tablets 83/3d. each	

SANDOZ PRODUCTS LIMITED

134 Wigmore Street, London W.1

OUR VANS DELIVER IN YOUR AREA EVERY DAY

THE COMPLETE CHEMISTS' WHOLESALE

SIDNICK
11-12, FINSBURY SQUARE, LONDON, E. C. 2.
TELEPHONE: MONARCH 5642/3

DISPRIN

NEUTRAL SOLUBLE ASPIRIN

Non-acid, non-irritant and palatable

D.C.L.
VITAMIN B₁
YEAST
TABLETS

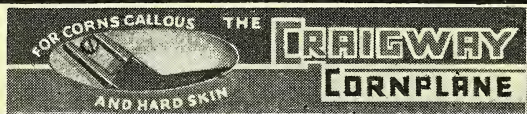
Each ounce contains a natural Vitamin B potency equivalent to that of 25 mgm. Aneurin Hydrochloride, 1.4 mgm. of Riboflavin, and 8.0 mgm. Nicotinic Acid. Each Tablet contains 100 I.U. (approx.) Vitamin B₁.
100 TABLETS 2s. 9d.
50 TABLETS 2s. 3d.
THE DISTILLERS CO., LTD.
EDINBURGH.

MILLAMALT

Sole Manufacturers: JEFFREYS, MILLER & CO. LTD (A6500 I.U., D400)
Leyland Mills, Wigan. London Dept. 19 Brookside Rd. N (1 U. PER FL. OZ.)



Malt Extract with
added Natural Vitamins



Individually packed
in cartons

DISPLAY CARD OF 18

RETAIL **2/3** PRICE

Sole Distributors:

CRAIG & PARSONS LTD., 82, Stafford Road, Wallington, Surrey

Phone: Wallington 3694

The remarkable success of the "Craigway" Corn Plane is due to the new principle involved. The angle of the blade is the secret. This new and profitable line only needs showing to SELL!

15/4 per doz. plus
Purchase Tax
Usual discount to
Wholesalers

the
day
your
customer
weighs
15 lbs



When baby weighs 15 lbs., he is ready for Farex. This is the message mothers are now reading in all the principal women's magazines. Big Farex advertisements—the first to appear for this solidly established product—are going to stimulate still bigger Farex sales.

Remember that Farex contains not one but *three* cereals. It has added tonic minerals and vitamin D. It can be given literally any flavouring desired. And Farex needs no cooking—a feature that every busy mother appreciates.

To help you take full advantage of the increased demand for Farex we have prepared a special nine-colour showcard. An attractive Farex "crown" is also available. Both will gladly be sent to you on request.

Please tell any mother who would like a copy of the informative 16-page booklet, "The Farex Guide to Weaning", to send us her name and address, enclosing a 1d. stamp. And if you would like a copy for yourself, please ask.



Ready-cooked 3-cereal food

In 10 oz. cartons 1/-

For extra profit order Standard Parcel 2 doz. × 10 oz., 18/- net.

GLAXO LABORATORIES LTD., 985C GREENFORD RD., GREENFORD MIDDLESEX

O Z O M I N T

the Tooth Paste so efficient for smokers
and in use against pyorrhœa is made by—

CUXSON, GERRARD & CO. LTD.

Manufacturing Chemists
Oldbury, Nr. Birmingham

and is obtainable only direct

Other mouth hygiene adjuncts—
“Sanoids” Effervescent Mouth Wash Tablets
and Dentosine

ENTROSALYL

Capsules

A new presentation of sodium salicylate in capsule form which obviates all the disadvantages associated with the administration of sodium salicylate in its usual form.

Each capsule contains 0.5 G. sodium salicylate and may be taken with complete freedom from nausea or gastric irritation.

P.A.T.A. Trade Prices:—

50's 32/- per doz. + 10/4 P.T.
200's dispensing pack 116/- per doz.
1000's dispensing pack 400/- per doz.

(Dispensing Packs tax free)

CONTINENTAL LABORATORIES LTD.

101 Great Russell Street, London, W.C.1.

Telephone : Museum 2042-3

Telegrams : Taxolabs, Phone, London



The Traveller reports . . .

'It would help us a great deal'

THE TRAVELLER IS RIGHT

The local newspapers will move *your* products more quickly over the counter.

Advertisers and Advertising Agents are invited to write to our Information Officer, who will gladly give all possible information and assistance.

" . . . dealers in this area are not too enthusiastic about ordering. Our lines are not moving at all well, as many customers are using a rival product which is now being advertised in the local newspapers. Retailers say that this local advertising always has a marked influence on counter sales. I feel sure it would help us a great deal if we advertised in the local newspapers."

Where there's a shop there's a local newspaper

THE NEWSPAPER SOCIETY, SALISBURY SQUARE HOUSE, E.C.4

TELEPHONE: CENTRAL 4722

TELEGRAMS: NUPASOCIE PHONE LONDON

Richardsons.
Leicester



CHEMISTS *own name*
counter specialities

ESTABLISHED 1793

HEAD OFFICE & WORKS, EYINGTON VALLEY RD. LEICESTER. Tel. 24571 (2 lines)

*Dental Sticks
are specially
made for
massaging the
gums - They
are not tooth-
picks —*

Dental Sticks are manufactured from various types of specially selected soft and hard woods and also from whalebone and are intended entirely for massaging the gums between the teeth.

BRITISH DENTAL STICKS LIMITED
NEWCASTLE-ON-TYNE 4

ALWAYS IN DEMAND

*Eau de
Cavalcade
by
hanri*



THE MOST OUTSTANDING
PERFUMED COLOGNE
MARKETED TO-DAY. ITS
APPEAL TO EVERY WOMAN
OFFERS CONTINUOUS
PROFIT TO EVERY
STOCKIST

PRICE LIST UPON REQUEST

SHOWCARDS AVAILABLE

CAVALCADE BEAUTY PREPARATIONS LTD.
417/419 BATTERSEA PARK RD., LONDON, S.W.11.
TELEPHONE: BATTERSEA 6505/6

PARIS

LONDON

(IN LIMITED SUPPLY)

Owbridge's PASTILLES

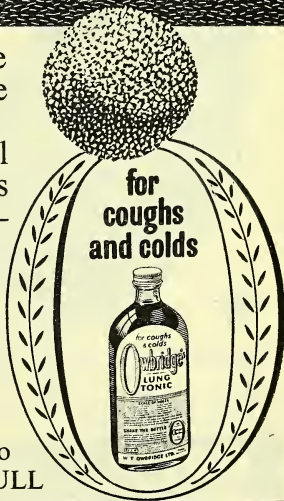
in a handy tube



New! Owbridge's Lung Tonic in pastille form. The same ingredients, the same honey flavour — but easier to carry. When you sell liquid Lung Tonic sell Owbridge's sugar coated pastilles as well. Packed in a cardboard tube — ideal for pocket or handbag.

Owbridge's Lung Tonic is now sold in small and family size bottles. Every label bears the famous 'O' for Owbridge's — the family remedy for 75 years.

Ask your wholesaler for details or write direct to
W. T. OWBRIDGE LTD., OSBORNE ST., HULL



PROFITABLE COUNTER LINES

HEWLETT'S ANTISEPTIC CREAM	- - -	Retails at 2s. 9d. per tube
HEWLETT'S TEETHING JELLY	- - -	„ „ 1s. 10d. per tube
MENTHOL and WINTERGREEN CREAM	„ „	1s. 10d. per tube
	Approx. 1½ oz.	
FORMALGAR GARGLE and MOUTHWASH	„ „	1s. 1½d. per bott.
	2 oz.	
VITONAGEN TONIC	- - - - 8 oz.	„ „ 4s. 3d. per bott.

These prices apply in the United Kingdom only

ALL ARE FREELY AVAILABLE THROUGH YOUR USUAL WHOLESALER

OR DIRECT FROM

C. J. HEWLETT & SON LTD., 35/43 Charlotte Road, London, E.C.2



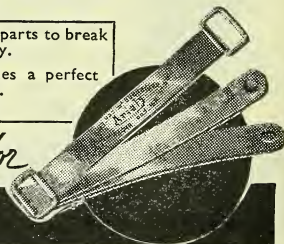
To help you sell still more **ARIEL CURLERS**

We have designed an attractive new presentation for counter display. Backing you up at point of sale is a full-scale publicity campaign which includes announcements in such widely read magazines as "Illustrated," "Home Chat," "Home Notes," "Woman's Own," "Woman," "Woman's Weekly."



Make sure you are stocked to meet an increased demand for this popular brand.

- Very easy to fit.
- Lies so flat to the head that the wearer can sleep in comfort.
- No parts to break away.
- Makes a perfect curl.



More customers than ever will be asking for

ARIEL BRAND HAIR CURLERS

Wholesale only. **S. & D. RIVET CO. LTD., Temple Road, Leicester**



A MOVING PICTURE..

Hiltone's popularity makes it a ready seller and this year's increased press advertising will ensure bigger-than-ever sales. Hiltone's famous slogan "as light as you like . . . and no lighter" will be seen by millions of women, and country-wide demonstrations will keep Hiltone in their minds. For brightening and lightening the hair to new, natural-looking beauty, Hiltone's controlled action is unequalled. Stock Hiltone, display it—you'll sell it.

HILTONE

AS LIGHT AS YOU LIKE . . . AND NO LIGHTER

COUNTY PERFUMERY CO. LTD., STANMORE, MIDDLESEX



IN
TWO SIZES
ONE GALLON
37/6d.

ONE QUART
12/6d.



★ OCTOBER 1st — MIST RISK ZERO DAY

Mistovoid

PREVENTS MIST—

LONG LASTING

At last, a de-misting preparation which is the complete answer to condensation problems on shop windows, showcases, etc. MISTOVOID will prevent condensation and remains effective from 1 to 3 weeks. It is a non-abrasive, non-inflammable preparation with cleaning as well as de-misting properties. It is easily applied and is economical for treating large surfaces.

LET YOUR CUSTOMERS SEE YOUR
PRODUCTS—KEEP YOUR WINDOWS
CLEAR WITH MISTOVOID

For a normal Double-Fronted shop
a gallon lasts a season.

INDUSTRIAL FLUIDS LIMITED

HALLIWICK COURT, WOODHOUSE ROAD, LONDON, N.12

Tel: ENTerprise 1147

Stops Scurf

Page-Barker's

Scurf & Dandruff Lotion

Trade 20/- doz.

Plus Tax $\frac{1}{4}$ Retail 3 $\frac{1}{4}$

Ask for Showcard

Money Back
Guarantee
on every bottle!



PATA

Sole Distributors to the Chemists' Trade—

THOS. CHRISTY & CO. LTD. FARNHAM, SURREY

Sole Manufacturers and Proprietors:—

THE ILEX SUPPLY CO., LTD., 252b, GRAY'S INN ROAD, LONDON, W.C.1

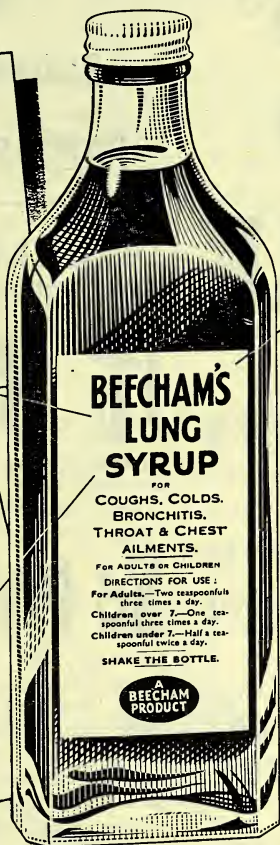
Things to keep in mind about

BEECHAM'S LUNG SYRUP

P.A.T.A.

Suitable for
Wet or
Dry coughs

Palatable
and Mildly
Antiseptic



Antitussive
and
Expectorant

There can be no substitute for the goodwill of the buyer. Neither can there be any substitute for the sincere and unreserved recommendation of the chemist. The name and formula of Beecham's LUNG SYRUP bring profit and prestige wherever it is sold. It is the HOME AND FAMILY remedy—and the time is now ripe to show your stocks.

A GOOD SHOW
will bring in
the customers

**BEECHAMS PILLS LTD.,
ST. HELENS, LANCASHIRE**

Stock up
NOW
for the
'COLD'
season
•
VELPAK
PAPER
HANDKERCHIEFS

•
*Increased Contents
but still 6d. a packet*

**BIGGER VALUE
BIGGER TURNOVER
BIGGER PROFITS!**

From your usual wholesaler
VELVET CREPE PAPER CO. LTD.
Alperton Mills, Alperton, Middlesex.

Veloury
de **DIXOR**

RETAIL
PRICES
11½d & 19½d
(inc. tax)

The
ORIGINAL
combined
POWDER CREAM

from your usual wholesaler or direct
DIXOR LTD. St. Leonards Works,
Mortlake, S.W.14

It isn't safe

to wear perfumes by Peter Claridge—they turn too many heads! That is what we claim for "Dual Control" and "Smart Party" the first creations of this brilliant young perfumer.

Be prepared for the demand for these two new perfumes. Our advertising, with its intriguing theme, has aroused great interest and "Smart Party" and "Dual Control" perfumes already enjoy wide popularity among beauty conscious women. Their gaily decorative display packs and the retail price of 2/- ensure them a ready sale. If our representative has not already called, ask your wholesaler or write for trade terms and details to :—

PETER CLARIDGE LTD
NEW BOND STREET • LONDON • W.1

Potter & Clarke Ltd.

have pleasure in announcing to their friends in Scotland that, for their convenience, a Distributing Depot has been opened at 62 ORBISTON STREET, MOTHERWELL, from which deliveries will be made.

Orders may be posted to the above address or 'phoned to MOTHERWELL 1413 for immediate delivery.

Their Representative in Scotland:—

MR. CHARLES COLEMAN, M.P.S.

*will be pleased to assist both old
and new customers.*

POTTER & CLARKE LTD.

LONDON · MANCHESTER · MOTHERWELL



WYREX

Trade Mark

BRUSHWARE

of distinction

LADIES' STYLE

Rubber Cushion Hairbrushes
Nylon Tufts and Wire Pins
Model C

Coloured wooden handles Pastel Pink, Pastel Blue, Post Office Red, Eau-de-nil, Green, Rose Wood and selected grained wood handles in natural polish.

Nylon Tufts 45/- per doz.
6/11 inc. P.T.

Wire Pins 36/- per doz.
5/6 inc. P.T.

★ See further advertisements for other models



All hairbrushes are packed individually in attractively designed coloured cartons, with special cellophane window for viewing.

OAKFIELD & COMPANY

Manufacturers and Exporters

WHEILDEN HO., WHEILDEN STREET,
AMERSHAM, BUCKS

Regd. Trade Mark
OAK FIELD

MARKSMAN



Sponges

SEND TODAY FOR A COPY
OF OUR LATEST PRICE LIST

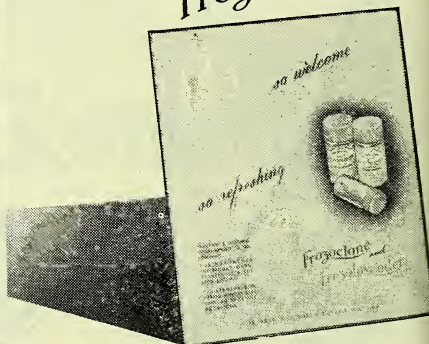
Leslie Marks & Company Ltd.

Importers and Exporters of Fine Sponges
Chamois Leather Dressers

3-9 EARLHAM STREET, CAMBRIDGE CIRCUS
LONDON, W.C.2. Temple Bar 6135/6

Announcing

Frozoclone and Frozolavender



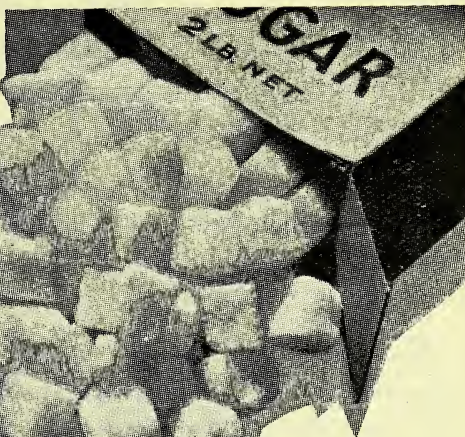
This showcard in beautiful pastel shades, is now available for counter display of Frozoclone and Frozolavender, offered in attractive display cartons for Christmas sales.

Price of Frozoclone and Frozolavender-18/8 per dozen plus P.T. at 18/8, including gift box.

R. DEMUTH LTD. Farnham, Surrey.

SUGAR

is scarce . . .



. . . . but
'SAXIN'
is now available
to all!

'Saxin' may now be sold without prescription. Ample supplies are available. While the sugar shortage continues you can make life sweeter for *all* your customers by recommending this excellent alternative. 'Saxin' is the next-best sweetener to sugar. It dissolves quickly and completely, leaves no bitter after-taste. Each product is equal to a large lump of sugar in sweetening power.

Put 'Saxin' on display today. An informative new showcard has been prepared to tell the 'Saxin' story to your customers. In bottles of 100 and 200, retailing at 1/6 and 2/9.



'TABLOID' BRAND

'SAXIN'

TRADE MARK

. . . the next-best sweetener to sugar



BURROUGHS WELLCOME & CO.

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The CHEMIST AND DRUGGIST

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CONTENTS

Volume CLII

BRITISH PHARMACEUTICAL CONFERENCE

Pictures	419 and 422-23
Cartoon	420-21
Branch Representatives' Meeting	424
Banquet	427
Closing Session	428
Sidelights	429-30
Personalities	431-32
Symposium Session... ..	433-35
Science Sessions	436-38
Business Changes	406
Chemists Federation	412
Coming Events	444
Company News	406
Correspondence	439
Deaths	408

Editorial Articles:—

Probably the Last of its Kind ...	417
A Composite Chemical Factory ...	417
The Pound Devalued	418
Fifty Years Ago	418
I.C.I. Tees-side Development ...	413
Irish News	405
Local News	405
Marriages	408
Overseas News	405
Personalities	406
Pharmaceutical Society of Ireland ...	411
Poisons Law, 1935-45—8	410
Topical Reflections	407
Trade Marks	444
Trade Notes	409
Trade Report	440

NEWS OF THE WEEK

Congress of Industrial Chemistry.—The twenty-second International Congress of Industrial Chemistry will be held at Barcelona from October 23 to October 30. Two papers on penicillin are among those to be read.

Withdrawal of Authorities.—The Home Secretary has withdrawn from Geoffrey Roderick Richards, M.R.C.S., L.R.C.P., 26 Connaught Street, Port Talbot, Glam., the authorities granted him under the Dangerous Drugs Act Regulations.

Centenary Luncheon.—On September 2 a number of commercial travellers held a luncheon and meeting at the Union Hotel, Penzance, in the room in which, a century ago, other commercial travellers met and founded the Commercial Travellers' Benevolent Institution.

Import Duties Drawback on Toilet Paper.—A new Order, the Import Duties Drawback (No. 10) Order, 1949 (S.I. 1949, No. 1676) allows until September 15, 1950, drawback in respect of certain imported tissue papers and machine-glazed

papers, used in the manufacture of toilet rolls or packets.

Pharmaceutical Man-power in June.—The number of persons employed in the pharmaceutical, toilet and perfumery industries in June was 332,000, against 326,000 in May. In the chemical and allied trades the number of persons employed increased by 1 per cent. during June.

Price Control Changes.—The Board of Trade has issued the Miscellaneous Goods (Maximum Prices) (Amendment No. 7) Order, 1949. (S.I. 1949, No. 1705), operative from September 26, amending a previous Order and restricting maximum prices to a more limited range of goods, including x-ray plates or film, perfumery and toilet preparations.

Export Control Changes.—Changes in export licensing control are made by a Board of Trade Order which came into operation on September 19. Among the goods that will not require export licences from that date are malt extracts and pre-

parations. Licences will in future be required for peppers (including peppers of the *Piper nigrum*), other than capsicum, chillies, red pepper (cayenne pepper) and paprika.

Industrial Diseases in June.—Six new cases of lead poisoning were reported in June under the Factories Act, or under the Lead Paint (Protection Against Poisoning) Act. Other cases of poisoning reported included one of aniline, two of toxic anæmia, and two cases of compressed-air illness. Twenty-seven cases of epitheliomatous ulceration (skin cancer) were reported, of which thirteen were caused by pitch, eleven by tar, and three cases by oil. Three deaths from skin cancer were reported (one caused by tar, and two by oil). In June there were sixteen cases of chrome ulceration.

I.C.I. Research Fellowships in Pakistan.—The Pakistan Association for the Cultivation of Science has accepted an offer from Imperial Chemical Industries, Ltd., to provide the sum of 160,000 rupees (£12,000) for research fellowships in chemistry, physics and biology at Pakistan universities or institutions, over a period of five to seven years. Each fellowship will be worth about 400 rupees per month, and will be for two years with a possibility of extension to three. In addition, fellowship holders would be given a grant to cover expenses for special apparatus and materials. The Pakistan Association for the Cultivation of Science will make appointments to, and control, the fellowships, which will be open to persons irrespective of sex, race or religion, the overriding consideration being their scientific fitness.

Commercial Synthesis of Thyroxine.—A method of synthesising *l*-thyroxine on a commercial scale has been devised by workers of Glaxo Laboratories, Ltd., and the synthesised preparation is announced to be already available. The elaboration of the synthesis is the result of work commenced in 1946. In 1947 *dl*-thyroxine was synthesised, and the method led to a new process for synthesising the natural *l*-thyroxine in good yield. The manufacturers state that 0.1 mgm. of the new synthetic *l*-thyroxine-sodium may be taken as equivalent to the thyroxine content of about gr. 1 of thyroid, B.P. The pure hormone, they say, may have a significant effect on the accurate treatment of thyroid deficiency.

Anthrax Warning.—The Ministry of Agriculture and Fisheries has issued a warning to stockowners to report to the police any cases of sudden death among their animals (especially cattle) if there is anthrax. The onset of the disease is often so short that the animals are found dead without signs of illness having been seen. Where death is less sudden, high temperature, shivering and twitching, harsh dry coat, fits, bright staring eyes, dejection, refusal of food or marked or complete loss of milk may be observable. Occasionally there may be a small trickle of blood from the nostrils or signs of blood in the dung of the ailing animal. Every care should be taken to prevent contamination of the ground with the blood of a dead or dying animal as this contains germs that can survive in the soil and are capable of re-infecting other animals after many years. In no circumstances should stockowners cut or allow others to cut the carcase of any animal that may be affected.

Allied Trade Marks in Japan.—The Far Eastern Commission approved at a recent meeting a decision to provide (1) for the restoration of Allied-owned trade mark rights which were lost as a result of the war and (2) for the protection of Allied trade mark rights in Japan and elsewhere against infringement by the Japanese. At the outbreak of hostilities between Japan and the Allied countries all trade mark rights belonging to Allied nationals were seized under Japanese war-time laws. Under the policy recently adopted, the registrations of such rights are to be extended from the date of restoration for a period equivalent to the unexpired period at the time they were lost. Before the war, the Japanese copying of foreign designs and mismarking of goods presented a serious problem. Various methods were adapted to induce foreign buyers to purchase Japanese. The new policy requires the Japanese government to prevent further registration of trade marks which are confusingly similar to well-known foreign marks, and it permits United Nations nationals to apply for cancellation of any such marks already registered. It provides further that steps shall be taken to assure that goods manufactured in Japan are not marked in a way that suggests that they are made in other countries, and that export goods are not marked so as to misrepresent their quantity, quality, or content.

LOCAL NEWS

Sheffield Lectures.—A course of eight university extension lectures in pharmacy and pharmacology for pharmacists will be given in the University, Western Bank, Sheffield, on Thursday evenings beginning October 13.

Bowling Competition.—The annual competition of the Scottish Chemists' Bowling Association for the D. & W. Gibbs, Ltd., pairs trophy was held at Balgreen, Edinburgh, on September 7. Messrs. R. N. Baird and J. Menzies (skip) received prizes presented by D. & W. Gibbs, Ltd. The runners-up, Messrs. F. J. C. Lawford and A. Scott (skip) received prizes given by Duncan, Flockhart & Co.

Chemists' Golf.—The final outing for 1949 of the Northumberland and Durham Chemists' Golfing Society was held at Ponteland on September 14. The Hall Forster cup was won by Mr. G. Iredale, Dunston, with a net return of six under bogey. The Allenburys tankard was won by Mr. G. Law, who, being Messrs. Allen & Hanbury's representative, took third prize of four golf balls, allowing the third prize winner (Mr. R. Henry) to receive the tankard.

Renfrew N.H.S. Report.—Presenting the report on the first year's working of the National Health Service in Renfrewshire, Mr. Thomas Hunter (chairman, Executive Council) said that chemists so far had only been fully paid for the first three months and consequently some chemists were suffering hardship. He gave the following statistics:—Prescriptions dispensed during the year, £637,879; (equivalent to almost two per head); total expenditure, £787,670.

Works Sports Fête.—A sports day for the employees of Kemball, Bishop & Co., Ltd., was held at Woodford Bridge on September 17. Colonel H. F. Kemball (managing director) opened the fête in fine weather, and welcomed employees and their families to the first function of its kind held by the company. The programme included sports events catering for all "from toddlers to veterans," and a conjuring and ventriloquist show for the children. Prizes were presented by Mrs. H. F. Kemball, and the proceedings concluded with a short interlude of music. Refreshments and transport arrangements were provided by the company.

IRISH NEWS

Strike Threat to Shop Lighting.—Chemists throughout Northern Ireland had to make emergency arrangements for the lighting of their premises during the week-end of September 17, when a strike of power-station workers threatened to cut off electricity supplies.

Streptomycin Control Reintroduced.—The Medical Research Council of Ireland, at the request of the Department of Health, is resuming control of streptomycin on October 1. Dr. J. W. Bigger (secretary of the Council) said that the Council would not give permission to doctors to treat patients with streptomycin in general, but would keep it in reserve for cases in which it was really necessary. In general, patients would be kept in hospitals.

OVERSEAS NEWS

Norwegian Cod-liver Oil Production.—In 1948 output of cod-liver oil amounted to about 2,550,000 gall. Exports of steamed medicinal cod-liver oil totalled 1,880,213 gall. The United States (368,181 gall.) was the chief buyer, followed by Holland, Italy, Poland, France and Turkey.

Shipments at Hong Kong Held Up.—East and North China trade authorities are reported to be studying detailed measures aiming at speedy clearance of a large accumulation of essential imports destined for China but "currency-stranded" at Hong Kong. The cargoes, estimated at a value of £255,000 include pharmaceutical products, and it is hoped to have them shipped to Shanghai through Tientsin.

Sources of Cortisone.—A warning that considerable research work must be carried out before Cortisone from strophanthus seed is commercially available is contained in a statement recently published by Dr. Thomas Lewis (vice-president and technical director, S. B. Penick & Co., New York). The task of selecting and identifying which of the fifty species of the plant contain the wanted principle may not be completed for years. It is not yet known whether conditions of growth, drying, or age affect the potency of the seed, or what is the best time of collection. The U.S. Public Health service is trying to find new sources of supply, one possibility being *Digitalis lanata*.

PERSONALITIES

MR. W. SPENCE CULBERT, M.P.S., Airedrie, has been elected president, 1949-50, of Coatbridge Rotary Club.

DR. K. R. CAPPER has been appointed Editor of the scientific publications of the Pharmaceutical Society.

MR. S. J. RELPH, Ph.C., who was recently appointed president of the International



Pharmaceutical Students' Federation (see *C. & D.*, September 3, p. 307), is the general secretary, a past international correspondent, and treasurer of the British Pharmaceutical Students' Association. Son of Mr. S. Relph, M.P.S. (a former chairman of the Southend-on-Sea Branch of

the Pharmaceutical Society), he qualified M.P.S. in 1940 after study at Birmingham Central Technical College, and an apprenticeship with Mr. E. C. Bennison at T. Chase & Co., Ltd., Birmingham. He remained at the College as demonstrator in pharmaceutical chemistry until 1941 when he joined the R.A.M.C., serving in East Africa. After demobilisation, he studied for his Ph.C. diploma, which he obtained in 1948, and he is now proprietor of the old-established business of Harold Lumley, Wanstead, London, E.11. He was elected an associate of the Birmingham Central Technical College in 1949.

MR. J. LYDEN HENTON, export manager of Vitamins, Ltd., has left Britain for a business tour of the Eastern and European Mediterranean countries, and East Africa. He intends to visit all of the company's agents and distributors in those areas, and to return to this country in November.

MR. FREDERICK BROWN retired on September 2 after nearly fifty-seven years' service with Howards & Sons, Ltd. Mr. Brown joined the company in December 1892. In December 1942 he received the customary fifty-year presentation from Messrs. Howards, and it was he who made a presentation to the board on behalf of all employees at a dance held to commemorate

the 150th anniversary of the company in November 1947. Mr. Brown was then the senior employee. He served his whole time in the packing warehouse, where his speciality was the filling and finishing-off of bottles. He has lived in West Ham for many years.

NEW COMPANIES

FOOTMAN & Co., LTD. (P.C.).—Capital £2,000. To acquire the business of manufacturers and wholesalers of chiropody requisites carried on at 77 The Drive, Morden, Surrey, as Footman Chiropody Products. Arthur Footman, Frederick M. Attwood and Leonard W. Hatfield, directors.

MINAILA, LTD. (P.C.). — Capital £100. To carry on the business of manufacturing chemists, merchants and dealers in cosmetics, chemical compounds and preparations, etc. First directors are to be appointed. R.O.: 34 South Molton Street, London, W.1.

SANGERS, LTD.—Net profit, before taxation, for the year ended February 28 amounts to £322,476, against £379,122 in the previous year. The sum of £69,010 (£67,482) is deducted for profits tax, and £115,963 (£140,238) for income tax. Nothing (£2,732) is transferred to contingencies reserve, and £10,000 (nil) was incurred by note issue expenses. Minority interest dividend, less tax, takes up £1,937 (same); preference stock dividend (for year ended January 31) amounts to £21,202 (same). Dividend of 30 per cent. on the ordinary stock amounts to £99,454 (same). The sum of £258,273 is carried forward against £253,363 brought in.

BUSINESS CHANGES

MISS L. I. ANDERSON is opening a pharmacy at 18 Topping Street, Blackpool, on September 26.

WESTERN PHARMACEUTICALS, LTD., are removing on October 1 to Quarry Road, Kingswood, Bristol (Telephone: Bristol 74248).

C. R. HARKER STAGG & MORGAN, LTD., are opening a depôt at 1 Mount Brown, Dublin (Telephone: Dublin 51096-7) on October 3.

POTTER & CLARKE, LTD., 60 Artillery Lane, London, E.1, have opened a distributing depôt for Scotland at 62 Orbiston Street, Motherwell (Telephone: Motherwell 1413).

TOPICAL REFLECTIONS

Conference Chairman's Address

For his second address from the chair of the British Pharmaceutical Conference (p. 385) Dr. Norman Evers chose a subject related to, but contrasting with, the physical chemistry of his first address. Out of his experience he was able to draw apposite facts and comments on the inexhaustible subject of research. It is well that we should be reminded, on such an occasion, of the unending search for new and better remedies. The production of hundreds of substances in a laboratory is sometimes a prerequisite, as the chairman pointed out. He added: "We are still a long way from being able to design a new drug like a machine on a drawing-board." Inevitably, in our present state of knowledge, there are disappointments. "Time and again a drug, which has been thought from preliminary tests to have an irreproachable character and has been launched with a flourish of trumpets, has proved to possess undesirable and even dangerous qualities." Anyone with a varied dispensing experience can confirm this remark; and one proof of its truth is the accumulation of partly filled containers of medicaments on an unfrequented shelf. Dr. Evers kept a just balance between the factors that make up a successful piece of research. Pharmacy, he said, must not become mass-produced: yet there must be team-work, and for some of that work "the plodder is needed as well as his more brilliant colleague."

A Needless Extension

It is time that attention was called to the present arrangement of the Conference programme. For the third time running the closing session has been kept back till Friday of the Conference week; and, to make matters worse, the opening session was this year held on Monday of that week. Those who attended these annual events regularly before the war must have noticed that several well-known pharmacists would be present for a day or two and would then leave, pressure of work being usually the cause. If the fixtures are spread over five days—they have already been made to occupy, if not to fill, four and a half—such pharmacists will lose proportionately more of the proceedings, and members present in the various sections will be less likely to have the benefit of any remarks these experienced leaders might wish to make. I am well

aware that on several occasions two or three science papers have been taken as read for lack of time to discuss them; but it should not be beyond the power of the learned Executive Committee to choose for that operation papers of a type not likely to evoke discussion. There is a further consideration. It is unreasonable to expect members of any Conference local committee, however willing they may be, to have the responsibility of their stewardship prolonged for so many days. Their own affairs have to be attended to. My suggestion is that the opening session should be held on a Tuesday morning and the closing session not later than the following Thursday afternoon. Within that framework alternative times for the usual fixtures could be arranged.

Adam Smith on Apothecaries

Adam Smith (1723-90), whose comment on apothecaries' profits you cite on p. 369, is not so much read, I believe, as he was fifty or sixty years ago; but his opinions are always shrewd and some of them are still pointed enough to be usable. In Smith's time, and for several years after, the position of the apothecary in English life was definite. Whether he kept a shop or not was a matter for his own convenience. The late Dr. Cecil Wall informed me a few years ago that in 1702 the Society of Apothecaries of London had 391 members, and that twenty-six of them were "not in trade"; and that in 1719 the respective numbers were 400 and forty-eight. Smith sums up the function of the apothecary in the words: "He is the physician of the poor in all cases and of the rich when the distress or danger is not very great." That this was substantially accurate is clear from references to apothecaries in the novels of Jane Austen. If memory serves, there are four of them. In "Sense and Sensibility" we learn something about the professional skill of Mr. Donavan and Mr. Harris; in "Emma" we read a little about the characters, though less about the abilities, of Mr. Perry and Mr. Wingfield, whose respective merits were the subject of an emphatic opinion given by Mr. John Knightley. When Tom Bertram of Mansfield Park was seriously ill, he was of course attended by a physician: his father would have been horrified at the idea of trusting to the services of an apothecary in his case.

Xrayser

MARRIAGES

FELLINGHAM—BYROM.—At the Congregational Church, Fairhaven, nr. Blackpool, on September 3, William Fellingham, Giggleswick, Yorks, to Edith Byrom, M.P.S., 69 Warton Street, Lytham, Lancs.

STOUT—MACGREGOR.—At Edinburgh, on September 7, Cecil Henry Stout, B.Com., son of Mr. Henry Stout, Ph.C., 14 Belmont Gardens, Edinburgh, to Malvina Scott MacGregor, Edinburgh.

DEATHS

ACKROYD.—On August 16, Miss Mary Ackroyd, 2 Blackwall, Halifax, Yorks, aged forty-two. Miss Ackroyd qualified as a chemist and druggist in 1930.

CHAMBERS.—On September 12, Mr. Robert Laird Chambers, M.P.S.N.I., 45 Market Square, Lisburn, aged sixty-eight. Mr. Chambers served his apprenticeship with Grattan & Co., Ltd., Belfast, and qualified with the Pharmaceutical Society of Ireland before the 1914-18 war. He was afterwards employed in Waterford, Omagh and Strabane, before opening his own business at Lisburn in 1916. Mrs. Chambers, who survives him, is also a Licentiate of the Pharmaceutical Society of Ireland. At the funeral the Pharmaceutical Society of Northern Ireland was represented by Messrs. H. F. Moore (treasurer) and James Irwin (a member of Council).

CURRY.—On September 12, Mr. Frank Curry, for forty-one years a member of the staff of Burroughs Wellcome & Co., aged seventy-three. As supervising representative of the company, Mr. Curry was one of the best-known figures in the pharmaceutical world and had friends in all parts of the country. Qualifying before the turn of the century, he joined Messrs. Burroughs Wellcome in March 1900. He was in the head office at Snow Hill Buildings until 1907, and from then until his appointment as manager of the home division in the early part of the 1939-45 war was supervisor of the home representative staff. He retired in December 1941. On September 15 a memorial service was held at the Soho Memorial Chapel, East Finchley, the interment taking place at Dorking Cemetery.

GORDON.—On September 3, Mr. John Lewis Stewart Gordon, M.P.S., 279 Newbridge Road, Bath, aged sixty-seven. He was in business at 2 Beaufort West, Bath.

MCGEORGE.—At Burnlea, Coupar Angus, Perth, on September 14, Mr. David McGeorge, M.P.S., aged eighty-six. Mr. McGeorge went to Coupar Angus sixty years ago and was for thirty-six years in business at premises now occupied by his son-in-law, the provost, Mr. J. D. Davidson, M.P.S. He is survived by his only daughter, Mrs. Davidson.

MURRAY.—Suddenly at his home, 50 High Street, Montrose, on September 13, Mr. John Macfarlane Murray, M.P.S.

ROBERTSON.—On August 31, Mr. David Dougall Robertson, M.P.S., 102 Chessell Avenue, Bitterne, Southampton, aged forty-nine.

TEMPLETON.—At a hospital, on September 16, Mr. Alexander Steel Templeton, Wellwood Street, Muirkirk, Cumnock, Ayr. Mr. Templeton qualified in 1905.

WARD.—At 30 Harbour Street, Ramsgate, Kent, on September 2, Mr. Ernest Albert Ward, M.P.S., 58 Crowstone Road, Westcliff-on-Sea, Essex, aged fifty. Mr. Ward qualified in 1922.

WEST.—On August 25, Mr. Arthur Thomas Taylor West, M.P.S., 150 Frodingham Road, Scunthorpe, Lincs, aged eighty-eight. Mr. West qualified in 1886 and was for forty years in business in Scunthorpe.

WILLS

MISS F. M. HARVEY, M.P.S., 9 Kenton Park Crescent, Kenton, Harrow, late pharmacist to the Willesden Borough Council, left £3,151 (£3 089 net).

MR. J. W. BUTTERWORTH, M.P.S., 69 Barnes Avenue, Rawtenstall, Lancs, for many years manager of Boots, Ltd., Rawtenstall, left £281.

MR. C. S. OWBRIDGE, 336 Sandbanks Road, Parkstone, Dorset (a son of the late Mr. W. T. Owbridge), left £11,551 (£11,363 net).

MR. D. McLAREN, M.P.S., 20 Henderson Row, Edinburgh, left personal estate in England and Scotland valued at £1,026.

MR. F. H. PALMER, M.P.S., 34 All Saints Street, Hull, formerly chief pharmacist, Hull Royal Infirmary, and at one time in business at the Wolsey Pharmacy, Ipswich, left £2,900 (£2,833 net).

MR. C. R. WYLDE, Churchwood, Fittleworth, Sussex, wholesale manufacturing chemist, governing director of Thomas Keating, Ltd., left £101,001 (£100,183 net).

TRADE NOTES

Reduced Prices.—Glaxo Laboratories Ltd., Greenford announce that new reduced prices are in operation for Celin ampoules.

Production Discontinued.—Mansell, Hunt, Catty & Co., Ltd., Cressy Road, London, N.W.3, state they have discontinued the production of paper bottle-caps.

Pastilles for Coughs.—On another page W. T. Owbridge, Ltd., Osborne Street, Hull, illustrate and describe their newly introduced Owbridge's pastilles, which are available in cardboard tubes.

Chloromycetin.—Parke, Davis & Co., Staines Road, Hounslow, Middlesex, point out that Chloromycetin has been made available in bottles of twelve 0.25-gm. capsules and not as previously stated in these columns.

Photographic Fixer and Hardener.—May & Baker, Ltd., Dagenham, Essex, announce the introduction of a composite pack comprising one 10-fl.-oz. bottle of Amfix ultra-rapid photo fixer, and one 1-fl.-oz. bottle of Amfix special hardener.

Films.—The Crookes Laboratories, Ltd., Park Royal, London, N.W.10, state that the company's films, a descriptive leaflet on which is available, may again be booked throughout the winter season on loan, free of charge, by branches of the Pharmaceutical Society.

Christmas Gift List.—Dubarry Perfumery Co., Ltd., Goldstone Laboratories, Hove, 4, have issued a Christmas list in colour giving details of gift sets, perfumes, etc. Chemists who have not received a copy of the list are invited to send a request to the company.

London Warehouse.—Thomas Kerfoot & Co., Ltd., Vale of Bardsley, Ashton-under-Lyne, state that ample stocks are held at the company's London warehouse, Bardsley House, London, N.1. Quick delivery can be made in the metropolitan area and the home counties.

Bonus Terms and New Packs.—C. E. Fulford, Ltd., Carlton Hill, Leeds, are allowing a special 5 per cent. discount on all direct orders of £6 or over (all products) received during the period September 19 to October 31. Two new packs issued by the company present junior sizes of Zam-Buk ointment and Zam-Buk medicinal cream.

Waterproof Dressings.—A. DE ST. DALMAS & Co., LTD., Leicester, issue waterproof adhesive strapping in 3-yd. lengths (widths 1 in. and 2 in.) and not as previously stated.—WILLIAM MATHER, LTD., Dyer Street, Chester Road, Manchester, 15, produce a range of waterproof plastic dressings.

Error in Advertisement.—Stephen Matthews & Co., Ltd., 19 Farringdon Street, London, E.C.4, point out that the price of the larger dispensing pack of Curicones (500 capsules), is 26s. 5d., and not as recently given in the company's announcement. Messrs. Matthews are members of the Chemists Federation and Proprietary Articles Trade Association.

Not to be Televised.—The Toni twins, Irene and Rita Day, who are featured in an advertisement by the Toni division of Gillette Industries, Ltd., Great West Road, Brentford, Middlesex, on another page of this issue, are not now to appear, as there announced, in the B.B.C. television programme "Your Wardrobe." The cancellation was enforced shortly before the show was due to go on the air, but too late for correction of the advertisement.

Bonus Offers.—EVANS MEDICAL SUPPLIES, LTD., Speke, Liverpool, 19, are sending out to chemists details of a special bonus offer of six tins of Evans throat pastilles on minimum orders of six doz.; show material is available on request.—H. R. NAPP, LTD., 3 Clements Inn, London, W.C.2, are giving a bonus of $\frac{1}{4}$ doz. free on direct orders for two doz. 21-size Abecedin tablets, with an additional $2\frac{1}{2}$ per cent. for cash with order. The $2\frac{1}{4}$ -doz. packs are supplied in an attractive outer for display purposes.

Proprietary Articles Trade Association

Additions to Protected List (Part 1).—A. F. Sherley & Co., Ltd. Sherley's (veterinary) blood salts, 9s. doz., tax 33 $\frac{1}{2}$ per cent., inclusive retail price, 1s. 3d.; Sherley's (veterinary) cream shampoo, 9s. doz., tax 33 $\frac{1}{2}$ per cent., i.r.p. 1s. 3d.

Alterations to List (Part 1).—Bell & Sons, Ltd. George Bell's Kits condition powders for cats are in future to be known as Katmips (cat condition powders). The large size (thirty powders) has been withdrawn.

POISONS LAW, 1935-49

8. Schedule 4 Changes

THE application of Poison Rule 12 to substances in the Fourth Schedule was intended primarily to prevent the indiscriminate use of hypnotics. The operation of this "prescription only" Rule was, owing to previous "D.D." experience, singularly free from difficulties, apart from the uncertainties of "repeat" prescriptions. The object of the Rule was to obviate the dangers of self-medication and overdosage by neurotics, and the authorities undoubtedly intended to leave the question of "repeats" to the discretion of the prescriber, on the basis that the prescription would specify the "times" and "intervals" for dispensing. The necessity for continued treatment of epileptics with phenobarbitone resulted in the type of prescription marked "repeat" without further qualification, but an official dictum that such scripts could be dispensed an indefinite number of times abrogated control by the doctor. The war-time use of barbiturates to counteract worry and lack of sleep led to "repeat" prescriptions enabling sufferers to circumvent the law designed for their protection. Dispensing "*ad lib.*" was opposed from the outset by THE CHEMIST AND DRUGGIST on the ground that the supply of S.4 substances and preparations was restricted by Poison Rule 12(1) (e) which required each prescription to "indicate the total amount of medicine to be supplied." In particular it was stressed that supply upon an "improper" prescription shifted the penalty for not complying with poisons provisions from the prescriber to the dispenser. Carelessness in carrying phenobarbitone tablets led to almost daily broadcasts of their dangers until they became the subject of music-hall frivolity, and the Pharmaceutical Society had to request the broadcasting authority to omit the name of the poison in radio warnings.

Legality of "Repeats"

The impasse on the interpretation of Rule 12 persisted, and chemists questioning the "legality" of repeat prescriptions ran the risk of losing a good customer and also of offending the doctor. Increases in the number of deaths from overdoses of barbiturates led to representations by coroners on the laxity of the law. The situation was not rectified until 1948, and then by the simple expedient of assuming that

(under the modified Rule 12) "repeat" without qualification was limited to one repetition only.

Rule 12 Consolidated

The changes in Rule 12 (S.I., 1947, No. 2555, and 1948, No. 1379) are co-ordinated in Poison Rule 12 of the 1949 Poisons Rules. The first alteration enables delivery in case of emergency without a prescription upon an undertaking, by a person known to be a duly qualified medical practitioner, to supply the prescription within twenty-four hours. The forgetfulness of patients who require drugs to induce sleep and who suddenly find they are without a supply encourages liaison between physician and pharmacist and may indirectly help towards the writing of S.4 prescriptions in proper form. The difficulty prescribers find in fulfilling the many diverse requirements is shown by the addition made to paragraph (3) (e). This was necessary, following the inclusion of sulphonamides, in order to regularise omission of the dose of a preparation to be used for external treatment only. The "repeat" requirements are not free from objections. Obviously the safe and sure way is to specify both the number of times and also the intervals at which the prescription is to be repeated. Paragraph 4 (c) is fraught with danger by accumulation of many doses on prescriptions permitted to be dispensed at three-day intervals when there is no direction as to the intervals. The trend in control of hypnotics should be decidedly in the direction of tightening restrictions following the use of such substances by neurotics as substitutes for drugs of addiction and their use by seekers of euthanasia.

Schedule 4 Additions

The additions to the Fourth Schedule confirm its utility in preventing access by the public to drugs with harmful potentialities if used indiscriminately. The publicity given to the sulphonamides (especially M&B 693) made it necessary to add them to Schedule 4 in 1938. The original entry in the Poisons List did not cover compounds of para-aminobenzene-sulphonamide having substituted sulphonamide groups. Evasion of the law with substances such as Uleron (for gonorrhœa) resulted in amendment in 1940 to include derivatives having any of the hydrogen atoms of the

para-amino group or of the sulphonamide group substituted by another radical. A new category of Ex S.4 preparations was initiated in 1947, which exemplified both the flexibility of poisons law, and its liability to overlook the full effects of amendments. Sulphonamide ointments and dressings were made Ex S.4, but the fact that the latter automatically became Ex S.1 was not obvious. Dinitrocresols are now also Ex S.4 in agricultural and horticultural insecticides and fungicides. These have the incongruity of being made P.II in general and Ex A. in substances other than human medicines and insecticides, etc. Sulphonol and alkyl-sulphonals were made S.1 in 1940, thus ending the peculiarity of being S.4 but not S.1.

The continual addition of new medications to the Fourth Schedule is a consequence of developments in derivatives of barbituric acid and sulphonamides. The Extended List of Poisons in the *C. & D.* Poisons Guide classifies dozens of substances and hundreds of synonyms. It resolves the doubts and difficulties of pharmacists as to the scope of an other-

wise obscure Schedule. Each revision of the Guide and its Supplements adds a quota of Schedule 4 substances to the operative Poisons List.

Allylisopropylacetylurea was added in 1948 to end its abuse as an alternative to barbiturate medication. The danger attending the administration of Tridione in treatment of the petit mal form of epilepsy caused it to be added to the Fourth Schedule. It is of particular interest to note that the maker had requested such control prior to the inquest showing the necessity of continuous medical supervision. The latest use of the Fourth Schedule is to control the medicinal use of analgesics pending proof of absence of habit-forming propensities, 6-morpholino-4:4-diphenyl-heptane-3-one (better known as Heptalgin) being the first example.

Thus the Fourth Schedule suggests a form of control capable of being adopted in other countries for restricting those drugs, within the scope of the narcotics conventions, which require control, but do not warrant the drastic limitations necessary for Dangerous Drugs.

PHARMACEUTICAL SOCIETY OF IRELAND

At the September meeting of the Council of the Pharmaceutical Society of Ireland (held in Dublin on September 13) Mr. T. C. Scott (vice-president) was in the chair. Also present were Messrs. J. Gleeson (treasurer), John P. Kissane, D. C. O'Shea, R. Daly, H. P. Corrigan, M. Costello, P. Brooke-Kelly, T. B. O'Sullivan and J. A. O'Rourke. Apologies were received from Messrs. P. C. Cahill, C. J. Cremen, G. C. O'Neill, P. F. McGrath, M. Power and J. J. Roche. Messrs. T. C. Scott and M. Costello were appointed scrutineers of the ballot in the event of an election for the forthcoming seven vacancies on the Council.

The private secretary to the Minister for Health (in reply to a request to Dr. Browne to receive a deputation from the Society) wrote that the Minister would not be available until some date in September. Members agreed that a date later in the month would be suitable. A letter from the British Pharmacopœia Commission requested the Society's views on material submitted last February. Members decided to submit their comments at an early date. The Council accepted the offer of a lecture by Mr. A. L. Bacharach

(Glaxo Laboratories, Ltd.) to be given on October 18.

The reports of the House, Law and Schools Committees were submitted and approved. It was agreed to hold a special meeting of the Education Committee to consider opinions expressed by members and local associations in response to the Council's request for comments on the proposed educational scheme (see *C. & D.*, July 23, p. 118). MR. R. DALY said he would find it difficult to attend a meeting that month and would therefore like to draw attention to the effect the proposed changes would have on centres outside Dublin. The Cork Guild of Pharmacy feared that the new system would drive a considerable number of unregistered people into pharmacy, and was alarmed by the threat to schools at present recognised for chemistry, botany and materia medica. An alternative scheme had been outlined to him by a co. Cork pharmacist, and he would ask members to give it careful consideration when it came up for discussion. The proposed programme would lead to the closing of recognised centres, thereby cutting off educational amenities for students during the three years' period

of apprenticeship. Mr. D. C. O'SHEA said Cork would suffer the greatest hardship, as it was the largest centre outside Dublin. A university city of virtually 100,000 people, it needed facilities for pharmaceutical students. He did not wish to stress the number of intelligent and well-trained students sent up from Cork, but it was obvious that the men responsible for the training of these students had done splendid work. If recognition were withdrawn, the men who had toiled to provide a high standard of training would find themselves with empty laboratories.

Mr. J. GLEESON reminded members that consideration had been given to the matters raised by Messrs. Daly and O'Shea. The Council did not regard the three-year period of apprenticeship as a lull in the student's academic life. Students would be shown by the Society's professors how and what to study, and would find it necessary and profitable to continue working during apprenticeship. Mr. T. C. SCOTT assured Mr. Daly that full consideration would be given at the next meeting of the Education Committee to every aspect of pharmaceutical education.

Registration Matters

Preliminary registrations were granted to Mary A. Collins, Catherine M. W. Ambrose, Margaret Kelly, Malachy O'Brien, Mary F. O'Callaghan, Margaret S. O'Reilly, and Nora M. P. Brosnan.

The following changes of address were notified:—Mr. M. B. Brophy, M.P.S.I., to 5 Ranelagh, Dublin; Mrs. R. Daly, L.P.S.I., to Tyrrellspass, co. Westmeath; Mr. D. McAlister, M.P.S.I., to Hotel Northlands, Bettystown, co. Meath; Mr. T. Maloney, L.P.S.I., to the Pharmacy, Slane, co. Meath; Mr. C. M. Morrissey, L.P.S.I., to 199 Crumlin Road, Dublin; Mr. T. M. Nolan, L.P.S.I., to Dublin Road, Stillorgan, co. Dublin. An application by Mrs. Rosamond M. Daly (née Colgan), L.P.S.I., requesting change of name in the register was granted.

The Licence certificates of the Misses Anne Lacy and Mary A. McDermott, and Messrs. John Campbell and Christopher Nolan were signed and sealed. The following were elected members of the Society: Miss Margaret McGuinness; Messrs. Edward P. Hughes, James E. McLaughlin, Gerard M. O'Neill, Patrick Quinn and George A. P. Wright. Nominations for membership were passed in

respect of: Mr. William F. C. Burke, L.P.S.I., Sneem, co. Kerry; Mrs. R. Daly, L.P.S.I., Tyrrellspass, co. Westmeath; Miss Mary A. McDermott, L.P.S.I., Elphin, co. Roscommon; Mrs. K. M. Melvin, L.P.S.I., 17 O'Connell Street, Athlone; and Mr. Thomas M. Nolan, L.P.S.I., Stillorgan, co. Dublin. Mr. Thomas O'Hanlon, St. Senan's, Clifton Road, Montenotte, Park, Cork, was nominated an Associated Druggist. At a meeting of the Benevolent Fund Committee held at the close of the Council meeting a number of grants were passed for payment.

CHEMISTS FEDERATION

A MEETING of the Chemists Federation Council was held in London on September 7, the president (Mr. P. H. Smith) in the chair. Meetings of the propaganda and standards committees had been held on the previous day. The Council received a further report on contributions received for the C.F. publicity and propaganda fund. A third N.P.U. branch to pass the target figure set by the Council was the Horsham and North Sussex Branch. Six applications for wholesaler membership were considered and rejected. Four applications for manufacturer membership of the Federation were considered; one was deferred for further consideration. The applications of Bradley & Bliss, Ltd., Reading (Bliss Antipain tablets, golden eye ointment, pile ointment, and travel remedy); Forsters (Pharmaceuticals), Ltd., Seaham, co. Durham (Acorza Liquidum); and Polystol, Ltd., High Holborn, London, W.C.1 (Polystol bandage), were accepted. The Council approved the addition of Hewlett's teething jelly to the schedule of the agreement of C. J. Hewlett & Son, Ltd., London.

The Council ruled that:—

No Press or other advertisement for a C.F. product should include any statement or implication which is not permitted on the label, package or accompanying literature, and in no case shall a testimonial be reproduced other than that which is limited to the experience of the actual user.

The Council has examined 700 Press cuttings of advertisements for C.F. products, and in not more than two cases has it been necessary to request the manufacturers concerned to make any amendments. The Council ruled that the membership of Brontan, Ltd., had lapsed and the name of that company was therefore deleted from the C.F. list,

OPENING OF I.C.I. £22-MILLION WORKS

LORD MCGOWAN, K.B.E., chairman of the company, formally opened the new Imperial Chemical Industries works at Wilton, Tees-side, on Wednesday, September 14, which, when it is completed will, it is estimated, have cost twenty-two million pounds. This represents the first stage in the company's £80 million post-war expansion programme in this North-eastern area of the country.

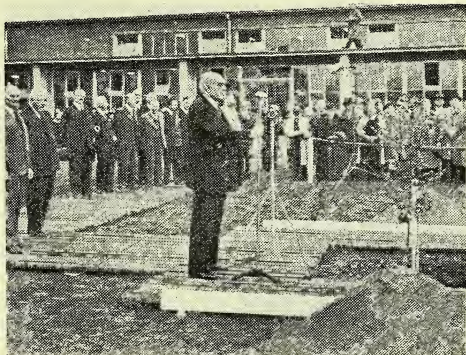
When I.C.I. bought a tract of 2,000 acres upon which to build Wilton Works, its intention was to provide a site that would accommodate a large part of the company's major developments for many years to come. These developments include not only additional plant for products already well established, but the manufacture in quantity of some of the newer products invented in more recent years, and, possibly, completely new manufactures which may arise out of I.C.I.'s research. The present programme represents only the first stage of development at Wilton, and the works has been so designed that further plants may be added in due course.

It is a little over three years since work was started on the Wilton site, and the first two plants are now in production. All the processes at Wilton are carried out at fairly high temperatures, and some at very high pressures. Large quantities of steam are used for heating raw materials to the required temperatures. A large amount of electricity will also be used in the plant electrolysis brine for producing chlorine and caustic soda. When the present stage of development is completed, it is expected that about 500 tons of coal will be used each day, and steam will be raised at a pressure of 900 pounds per square inch. Before being sent out into the network of pipes feeding steam to the plants, this steam will be passed through turbo-alternators which will generate the bulk of the 30,000 kilowatts required for operating the plants.

Arrangements have been made for the supply of forty-two million gallons a week of water which will be piped to Wilton works' six-million-gallon reservoir through thirteen miles of mains. Other water requirements will be of the order of five million gallons a week of purified water. To provide for the transport of the raw materials and products to and from the factory, an extensive road and rail system is being constructed, including over ten miles of roads and fifteen miles of railways, some eight miles of which are located in an area of over 100 acres reserved for the Wilton works main sidings.

Manufacturing Plants

The plants now in operation produce Perspex sheet and phenolic moulding powders. Perspex is the I.C.I. transparent plastic used so widely for aircraft. The Wilton plant will produce not only the transparent sheet, but white and coloured sheets for decorative articles, lighting fittings, sinks and a host of other uses. The phenolic moulding powders are the raw material from which manu-



Lord McGowan (chairman) performing tree-planting ceremony.

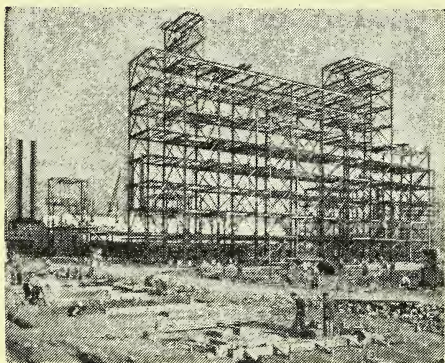
facturers mould a wide range of articles which have now become so familiar. The phenolic moulding powders are not suitable for white or light-coloured articles, nor for tableware. Such mouldings require urea moulding powders, and these will also be made at Wilton. A fourth plastic material will be produced in the first stage of Wilton's programme. This is polythene, the plastic whose unique electrical properties were of such value in the development of radar. This plastic has many other valuable properties, and new uses for it are being steadily expanded. The raw material for polythene is ethylene, which is one of the products of the Wilton oil-cracking plant.

Oil will be received from ocean-going tankers at the new berths being constructed at Teesport. Hundreds of tons a day will be cracked in order to obtain the simple

hydrocarbon gases from which the more complex organic chemicals are built up. For the present, the two most important of these gases are ethylene and propylene. From the former Wilton will make not only the polythene mentioned above, but synthetic washing agents and anti-freeze.

The "Link" Tunnel

Production of acetone will be carried out at Billingham, the propylene being sent to Billingham by pipeline along a route nearly ten miles in length which will pass under the River Tees through a tunnel 1,750 feet long. This tunnel is already constructed, and has a diameter of nine feet. This pipeway and tunnel, known as the Billingham/Wilton Link, will carry to Billingham, in addition to the propylene,



Oil-fired boiler plant in course of construction.

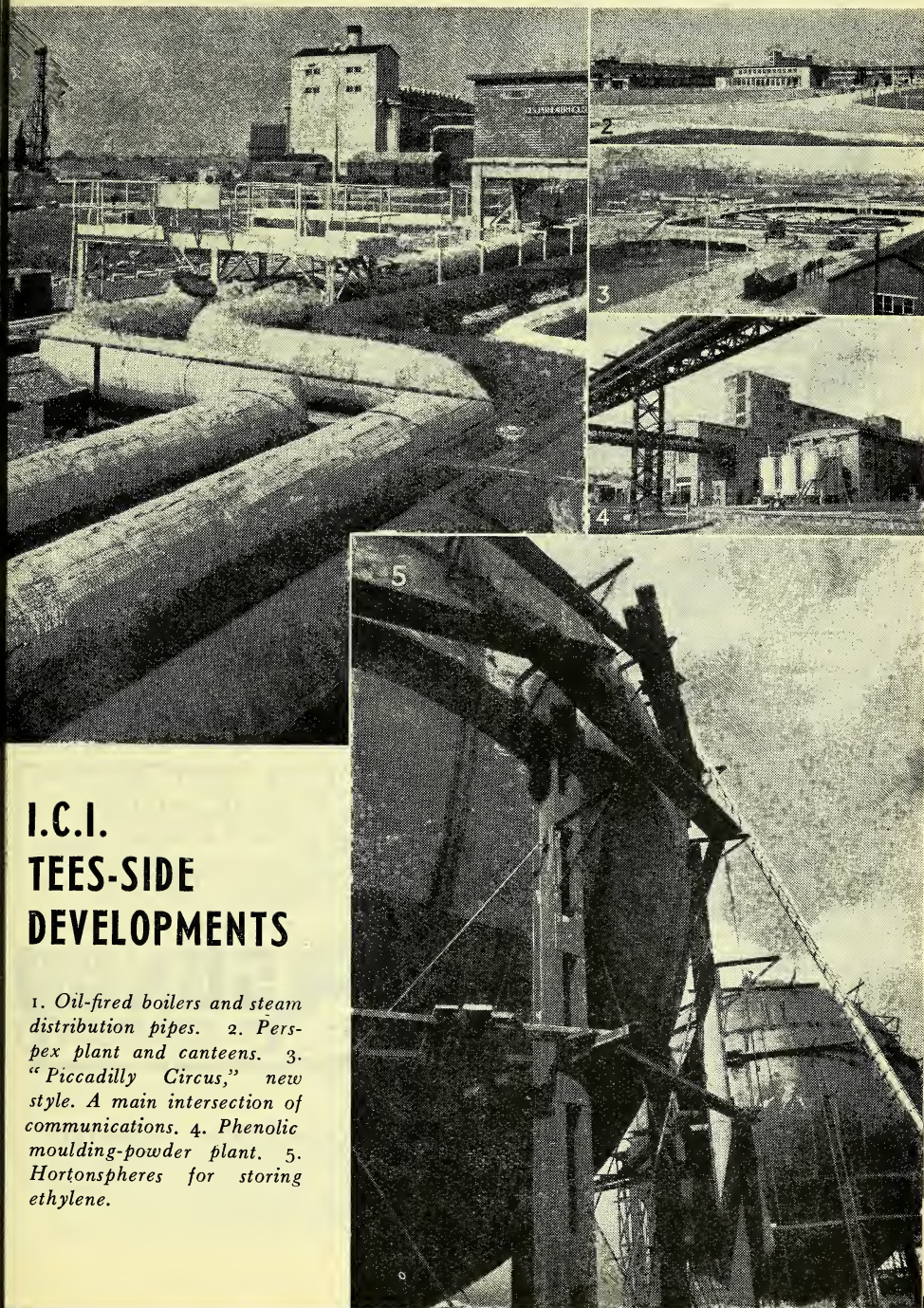
various other hydrocarbon gases produced in the oil-cracking plant, and also the petroleum formed as a by-product in the cracking process. In the reverse direction will flow brine from the South Durham brinefield which will provide the raw material for the electrolytic plant producing chlorine and caustic soda. Hydrogen gas is formed as a by-product of chlorine manufacture. The bulk of this will be sent through the Link to Billingham, but part will be retained at Wilton for use in the production by an improved process, of alpha naphthylamine, for the use of the dyestuffs industry. So far, approximately 40 per cent. of the work for the above plants and services has been completed, and this has involved the erection of about 8,000 tons of structural steelwork, the casting of 90,000 cubic yards of concrete and the laying of over five million bricks.

The process used on the Wilton Perspex plant is essentially that operated at the older Billingham and Darwen (Lancashire) factories, but incorporates the latest developments in mechanical and automatic control. The starting material in the manufacture of Perspex is methyl methacrylate, made by the General Chemicals Division of I.C.I., the nearest plant being at Billingham Works. The methyl methacrylate is first partially polymerised by heating in presence of a catalyst and, where coloured sheet is required, pigments are incorporated at this stage. This syrup is poured into a mould formed by two glass plates and a flexible gasket, the gasket diameter and weight of syrup depending upon the thickness of final sheet required. The gasket is of sufficient flexibility to take up the large contraction which occurs during polymerisation. The casting chamber is kept under a slight positive pressure with filtered air. This ensures freedom from dust in the air, which might contaminate the product at this vital stage. The filled moulds then pass to an automatically operated and controlled oven.

Phenol-Formaldehyde

The Wilton plant embodies the latest developments in resin and moulding-powder manufacture and makes full use of automatic control and mechanised handling to produce high-grade moulding powders of consistent quality. The processes are the result of several years' research work. When designing the plant, prime importance was attached to the elimination of the possibility of dust explosions.

In manufacturing P.F. moulding powders, a resin is first made from phenol or cresol and formaldehyde, and then mixed with fillers, colouring matter and other necessary ingredients. All the main raw materials needed in the manufacture are being, or will be, produced at or near Wilton. On another section of the plant, the blend of resin, filler etc., is converted to moulding powder by working under the action of heat and pressure in internal mixers and on open mills, where the mix becomes plastic and is controlled to a required flow or plasticity. The product is removed from the sheeting mill as a strip and is cooled, disintegrated to the required particle size, blended and packed. All the moulding powders made on the plant conform to B.S.I specifications.



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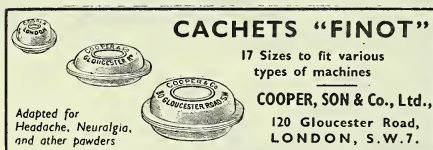


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VOL. CLII SEPTEMBER 24, 1949 No. 3631

Probably the Last of its Kind

It happens fairly frequently that the chairman of the British Pharmaceutical Conference voices a hope that the author of a science paper will follow it up with further papers on the same subject. Reversing the procedure, the representatives of the Pharmaceutical Society's branches told their president in no uncertain manner, on September 14, that they wanted no repetition of the sort of agenda on which the Branch Representatives' meeting had been called this time.

Now there would have been kinder and more suitable ways of making these wishes known. If members had raised their protests before the first speaker began or — better still — after the last speaker finished, they would have achieved their object without giving Miss Islip cause to suppose that her talk was not appreciated, or Miss Lothian reason to fear she had a hostile audience to win round to some sort of approval—impressions which other representatives proved by their remarks to be far from the truth. Indeed, the four papers were of such interest, and held the attention of representatives so well, that the Conference organisers might very well consider including similar items in a future "academic session," as suggested by Mr. E. Neville Browne. Only not at Branch Representatives' meetings! What he meant, we take it, was a session at which matters could be brought forward that were not scientific and did not call for controversial discussion. Whether such sessions would prove successful would de-

pend, of course, on how far topics of equal appeal to those presented on September 14 could be found for putting forward at a succession of Conference meetings.

So far as the Branch Representatives' meetings themselves are concerned, controversy is at the very heart of them. In Mr. Walsh's words, if the meetings have any purpose, it is to test the feeling of members on current problems. Should there exist no urgent problems (but how painfully many there are!) then there would be no occasion for a meeting. Fortunately the president recognised the force of Mr. Walsh's argument. His statement, "In view of the general expression of the meeting, this is probably the last Branch Representatives' meeting along these lines" will be widely approved.

A Composite Chemical Factory

THE inauguration of their £22-million works at Wilton, Tees-side, by Imperial Chemical Industries, Ltd. (p. 413) is the first step in the company's post-war development plans in this North-eastern area. When completed, it will have involved an expenditure of some £80 million, and certainly reflects great initiative and imagination and no lack of confidence in the future. The general site development is now well advanced and the buildings to house the various plants are in course of erection. At the same time communications facilities, together with power and other services, are in course of progress. The Perspex plant is already in production at a limited rate, and is expected to be completed in a few weeks' time. Export trade in this product is already at £750,000 annually. The phenol-formaldehyde resin and moulding-powder plant on which trial operations have already taken place will not be completed until early in 1950. The main activities at Wilton will consist of the cracking of oil for the production of basic organic chemicals, and the electrolysis of brine for the production of chlorine and caustic soda, both of which are vital to Britain in peace and war. The new works will co-operate with the company's Billingham plant, with facilities for an interchange of products by means of ten-miles-long pipe lines connecting the two works.

These and other similar I.C.I. expansions in production potential now being planned will do much to maintain this country's unrivalled position as world suppliers of industrial products. In the course of his speech at the opening ceremony, Lord McGowan said "I cannot conceive of Wilton, as we visualise it, being undertaken by a nationalised company." We would add that if the development of such a great industrial undertaking as that of the I.C.I. company, with its ever-widening ramifications, had been attempted under a nationalised scheme it would assuredly have been at considerable expense to the taxpayer and with but remote hope of economic operation.

The Pound Devalued

WHEN it was realised how heavily Britain had drawn on her gold reserves during the second quarter of the year many thought that it would not be long before the Government would devalue the pound in terms of the U.S. dollar. Indeed, it now appears that the decision to devalue after the Washington talks was made as early as July. Speculation had been rife for some weeks but the secret was, in fact, well kept, and the announcement by the Chancellor of the Exchequer, following as it did his recent denial that such a step was contemplated, came with a shock of surprise. The International Monetary Fund has formally approved the rate \$2.80 for the pound sterling.

Devaluation of a country's currency is always a distasteful business, but never more so than now. The extent of the devaluation—30.5 per cent.—has caused surprise, and it is natural that comparisons should be made with conditions at the time of the abandonment of the gold standard in September 1931, when the £ fell from \$4.85 to \$4.22. The present devaluation will not cure Britain's dollar shortage, nor the dollar shortages of the other countries who have followed her lead. Devaluation may make goods cheaper for the dollar customer, and British exporters will be stimulated to sell more goods to the United States. Indeed, it is imperative that the value of goods going to that market be greatly increased, for now each unit

weight or other quantity of commodity will bring in only about 70 per cent. of its former price in dollars. To facilitate this increase a greater proportion of Britain's man-power will have to be diverted to export industries catering for American needs and there will be a consequent drop in the level of supplies for the home market. More efforts must be made to achieve greater productivity and to cut costs on this side of the Atlantic, but at the same time a reduction of tariff rates at the other side would help a great deal. High tariffs are clearly inconsistent with the position of creditor countries. Under the recently-renewed Reciprocal Trade Act, President Truman may, perhaps, by executive action, do something to ease the tariff burden. The National Union of Manufacturers, at a meeting in London on September 20 to discuss the trade implications of devaluation, decided to press for the cessation of bulk buying and the reopening of commodity exchanges. Such measures would, in our opinion, lead to reductions in the costs of raw materials.

On the other hand, the wide range of goods this country imports from the U.S. and from certain other hard-currency countries will cost her more in terms of sterling, and this will mean some increase in the cost of living.

FIFTY YEARS AGO

Morphine in Cough Mixtures

(From the C. & D., September 23, 1899)

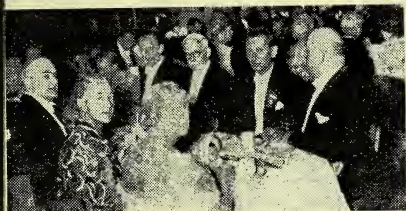
THE circumstance that Mr. Braxton Hicks [South London Coroner] has been laid aside through taking a cough-medicine is in itself interesting—his precept being that one should go to or call in a doctor when ill—but his suggestion that the morphine had undergone changes is one of considerable value to pharmacists. It is not at all impossible that the alkaloid may in a complex acid linctus change to a slight extent into apomorphine; but the fact has not been previously observed, and Mr. D. B. Dott has proved that in ordinary acid solutions no such change of morphine ever takes place if the solutions are kept at the normal temperature. The case may be different in complex mixtures. We wonder what is Mr. Braxton Hicks' ground for saying the morphine had changed?

CONFERENCE GROUPS

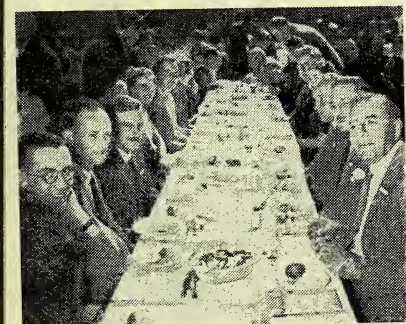
Photographs by B. A. MEADOWS & Co., Blackpool.



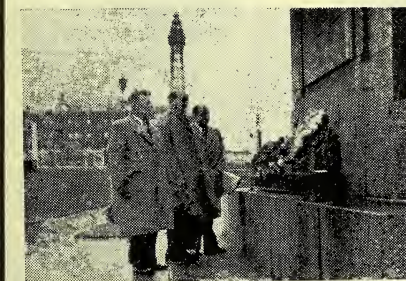
A lunch-time scene in the Spanish Hall.



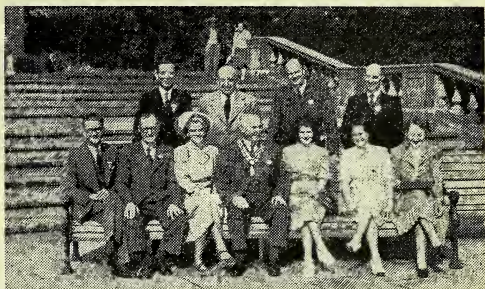
Messrs. C. J. W. Ferrey, H. Deane, T. Durkin, and others.



All eyes turn to the photographer.



French visitors lay wreath (see p. 429).



The president of the Society (Mr. H. Clement Shaw) with Mrs. Shaw among Lancashire members, including the local chairman (Mr. J. L. Dawson Cook), and local organising secretary (Mr. T. Durkin).



The president with Miss M. A. Burr (a member of Council) among a contingent of Welsh members.



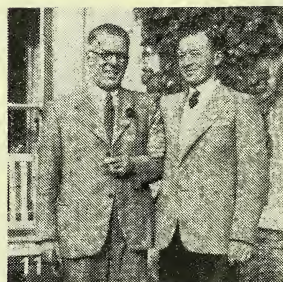
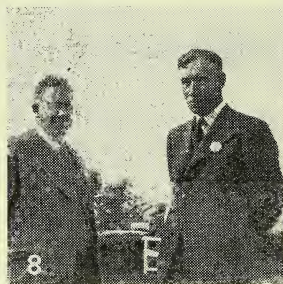
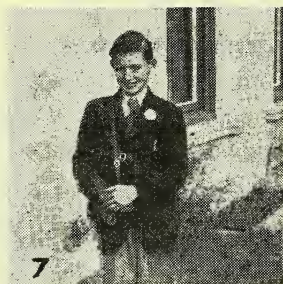
Messrs. H. H. Cowzer (president, Pharmaceutical Society of Northern Ireland), P. R. W. Shinner (vice president), J. McGregor, J. R. Guiler, Fred Storey, William Gorman, W. H. Gamble, W. H. Boyd, and others.

"C&D" ARTIST *at the*

BLACKPOOL CONFERENCE

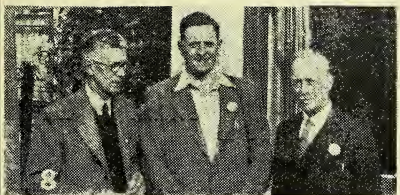






SNAPSHOTS AT WINDERMERE—AND ELSEWHERE,—1. Mr. J. W. Macfarlane with Miss L. I. Anderson and friend. 2. Dr. Evers with Mr. W. J. Tristram. 3. Boarding the lake steamer. 4. Ices, they're lovely. 5. Mr. J. R. Elliott, Miss M. J. Hincks, Mr. T. D. Whittet. 6. A rest among the trees. 7. Master Simpson, Blackpool. 8. Mr. McDougall with Dr. G. E. Foster. 9. A chat in the bows. 10. Mrs. and Dr. G. R. Boyes at Ambleside. 11. Mr. P. A. Brady, Dublin, with Mr. H. H. Cowzer, Belfast. 12. The C. & D's, arrive at the airport.

SNAPSHOTS ON THE OUTING TO WINDERMERE



1. Lake steamer approaches Bowness pier. 2. Double six. Stewards of No. 6 coach relax between spells of stewarding. 3. Miss M. C. Islip goes aboard. 4. Wearers of the red rosette—Mrs. and Mrs. Greenwood, Miss Joyce Westwood and others. 5. Next year's local committee? Mr. S. Hughan (chairman, Glasgow and South-western Scottish Branch) with fellow Glaswegians, among them Mr. W. Spence Culbert, Dr. Wylie, and Mr. Andrew Officer (Branch secretary). 6. Representatives of pharmacy from Dublin and Belfast. 7. A party of visitors from Wales. 8. Dr. S. McCall, Mr. Rowson, Dr. T. E. Wallis. 9. Mrs. J. L. D. Cook and Mr. Roy Stuttard with Blackpool colleagues. 10. Mr. W. C. Carmichael and Miss M. J. Hincks.





BRANCH REPRESENTATIVES' MEETING

REPRESENTATIVES of the Pharmaceutical Society's Branches met in the Baronial Hall on Thursday, Mr. H. C. Shaw in the chair as president of the Society. He was supported on the platform by Mr. F. W. Adams (secretary and registrar), Mr. Hugh N. Linstead, O.B.E., M.P. (secretary), Dr. S. McCall (resident secretary in Scotland), Miss M. C. Islip and Miss M. A. Burr (members of Council), Mr. J. F. McNeal (vice-president), Mr. W. S. Howells (treasurer), and Messrs. H. M. Hirst, W. J. Tristram, F. C. Wilson, Thomas Reid, D. W. Hudson and H. Steinman (members of Council).

Agenda of the Meeting

Opening the Session, THE PRESIDENT reminded members that it had been decided two years earlier that there should be two Branch Representatives' meetings annually, one at the time of the annual meeting, and the other during Conference week. It was then understood that the May meeting should deal with matters brought forward by the Branches, and the Conference-time meeting with matters of interest introduced by the Council. It had been hoped that the draft new Charter of the Society would be available for presentation and discussion, but difficulties of draughtsmanship had prevented its being ready. Two thousand replies were sought to the Council's questionnaire on manpower. Already 1,000 had been received, and it was hoped to arrive at completion within a month, but again the matter was not ready to put before the meeting.

Of the subjects on the agenda one dealt with pharmacy in hospitals and brought problems in that field to the notice of pharmacists in general, both to provide information and because of changes effected by the National Health Service. Closer linkage between pharmacists in hospitals and those in retail practice would lead to a greater influence of the two sections on one another.

MISS MARY C. ISLIP (a member of Council and pharmacist at Paddington Green Children's Hospital) then read her paper on "Hospital Pharmacy."

Miss ISLIP said that only during the previous hundred years had the supply of medicines begun to emerge as a separate branch of hospital work. A few hospitals had out-patients only; the majority had in-patients also. In the early days few pharmacists were in charge of dispensing departments, and there were still hospitals that did not employ pharmacists, though the majority did. Some hospitals that had no dispensing staff were satisfactorily serviced internally by local retail pharmacists, and in some areas hospital out-patient prescriptions, on special forms, were being dispensed by local chemists. Other hospitals were sadly in need of an internal pharmaceutical service, either full- or part-time. Some of those hospitals at which a service should and could be given by the pharmacist of a nearby hospital, or by a local chemist, were serviced by the supplies officer and had no pharmaceutical supervision. The Navy, prison and colonial services to some extent employed pharmacists in their hospitals, but that was not true of the Army and the Royal Air Force, which would not yet recognise the difference between a pharmacist and a "dispenser."

Pharmacist Not Obligatory

National Health prescriptions were, under the 1912 Act, required to be dispensed by or under the direct supervision of a pharmacist, but that was not true for prescriptions in hospital (unless under N.H.I.). Unfortunately, the position appeared to be the same under the National Health Service Act, and that was one of the important problems that had to be tackled so soon as the man-power position permitted. Up to July 5, 1948, each hospital or group of hospitals ran on its own lines. There being no legal obligation to employ a pharmacist, and individual administration, little co-ordination of the pharmaceutical service had existed. If approached in the right way, the co-ordination of the pharmaceutical service in hospital groups and regional areas could be attained without detriment to the indi-

viduality of the unit. Instead, supplies officers had been appointed to deal with all supplies, no account being taken of the technical and specialised knowledge needed for pharmaceutical supplies. In some cases unenlightened hospital management committees had even handed over the pharmaceutical supplies to the supplies officer. That had created a most unsatisfactory state of affairs and was undermining the efficiency of the service. The Standing Pharmaceutical Advisory Committee, set up at the beginning of 1949, was dealing with the matter as one of urgency.

Organisation by Region

Giving a picture of the general set-up of hospitals, Miss Islip said that England and Wales had been divided into fourteen regional hospital areas, Scotland into four. Hospitals in the areas were administered by Regional Hospital Boards (R.H.B.), and in each region there existed smaller groups administered by Hospital Management Committees (H.M.C.). Some individual hospitals had their own House Committees, and each committee had representation on the higher committee, thus bringing about considerable co-ordination of the hospital service. The Regional Boards were responsible to the Minister of Health. Apart from the regions there were groups of teaching hospitals administered by Boards of Governors (B.G.). The teaching hospital boards were directly responsible to the Minister, but had also nominees on the Regional Hospital Boards. Day-to-day administration was the function of the Hospital Management Committees; that of the Regional Boards was to attend to broad lines of policy. Central supply arrangements were envisaged; they were, in the case of x-ray films and a few other supplies, already in practice. Provided that arrangements were such (and they could be) that individual hospitals had choice of vendor, and wherever possible, direct delivery, the position might not be as bad as some hospital pharmacists had feared. Among committees with which hospital pharmacists were connected, the Central Health Services Council had the duty of advising the Minister on general matters concerning the service. The 41 members included two pharmacists, one of whom (Mr. R. H. Henriksen) was a hospital pharmacist. Next below came the Pharmaceutical Standing Advisory Committee (chairman, Mr. W. J. Tristram; vice-chairman,

Mr. Henriksen) which advised the Minister and the Central Health Services Council on the whole pharmaceutical service. Two members of the committee. (Messrs. Henriksen and J. Barclay Hough) were hospital pharmacists. The Advisory Committee had set up a hospital subcommittee under the chairmanship of Mr. Henriksen and this reported back to the committee. A subcommittee on health centres also included Mr. Henriksen. Members of all the committees were appointed by the Minister in a personal capacity, and not as representatives of organisations, though an endeavour had been made to ensure that all interests were represented. Committee C of the Pharmaceutical Functional Council, consisting of hospital pharmacists on the staff side, dealt with the salaries and conditions of service of hospital pharmacists. The local Pharmaceutical Committees had a place reserved for a hospital pharmacist. Through the Pharmaceutical Standing Advisory Committee and local Pharmaceutical Committees, the hospital pharmaceutical service had contact with the retail service, and through the advisory committee with administrative, manufacturing and teaching pharmacy. Thus, there was easy and ample opportunity for exchange of ideas and the moulding of a comprehensive and united pharmaceutical service.

Ideal Pharmacy Department

The ideal hospital pharmacy department consisted of a main dispensary, an aseptic laboratory and sterilising room, an office and adequate storage space easily accessible from the street, all conveniently situated in relation to one another. In a number of hospitals the pharmacist handled dressings and medical gases; in some he was also responsible for surgical instruments. In many the pharmacist lectured to nurses on materia medica, and in the teaching hospitals to the medical students on pharmaceutical matters. The pharmaceutical department was one of the focal points in the hospital, for every other department had need of it.

Salaries for hospital pharmacists were at present poor. The normal hours of work were thirty-nine per week, excluding meals. Under the National Health Service Act there was compulsory superannuation for the hospital pharmacist. Many hospitals were now using the National Formulary, or were incorporating it with their own formularies.

Since the advent of the National Health Service more patients had been referred to hospital by their own doctors; generally speaking, the casual out-patients had fallen in number.

MR. E. ROBINSON, Bradford, said members of his Branch took strong exception to the form of the agenda. They had hoped for an opportunity of discussing matters of importance.

MR. H. WALSH, Birmingham, said that while the paper had been excellent, and no doubt the three others would be equally good, they were not the right fare for a Branch Representatives' meeting. The Council could point to a mandate for putting them on the agenda, but the majority of members would disagree with that interpretation of the mandate. Were there no more pressing problems at the present time? If such meetings had any purpose, it was to test the feeling of members on current topics.

MR. E. NEVILLE BROWNE, South-west Metropolitan, thought time might be found for such "academic" papers in a lengthened Conference, as hinted at by the Conference chairman at the banquet, and MRS. H. E. SKINNER thought that the presentation of such papers had a useful function in educating members about the activities of their Society.

THE PRESIDENT thanked members for their observations and said that in view of them that meeting would probably be the last with an agenda of that kind.

Hospital-retail Relations

MR. L. A. BUTT, Liverpool, said there was in his district an impression that the public pharmacist had nothing in common with the member in the shop, and that the hospital pharmacists had therefore retired with their poverty and pride to Olympus. Yet a vast number of pharmacists were sympathetic to their aims. Pharmacists of all classes should get together and the place for doing that was the Branch meeting.

MR. S. BUBB, Reading, said it had come as a shock to realise the appalling conditions in hospitals. He gave an assurance of an essential solidarity between the hospital and retail sides.

MR. C. NORMAN, North Metropolitan, asked if the speaker had any comment to make on the extent to which doctors in out-patients' departments were being encouraged either to issue prescriptions to be dispensed by local chemists or alternatively were sending the patients back to their doctors, and Miss ISLIP replied that

in her experience doctors were not giving prescriptions to patients but sending patients to their medical practitioners.

MR. H. S. GRAINGER said that ideally the out-patient should be referred back to the general practitioner, but many had to come at regular intervals. Was it realistic to expect them to keep going back to their own doctor for a prescription and on to their chemist to have it dispensed? Why should all those delays be required in a service that aimed to serve the patient?

Negotiations in Progress

MR. J. J. SMALL, Hull, asked about the possibility of securing that the relevant clauses of the Pharmacy and Poisons Act, 1933, were made to apply to hospitals. At present, a porter could dispense—and without the supervision of a pharmacist. MR. F. W. ADAMS replied on this point. He said the matter was being dealt with as a matter of direct negotiation with the Ministry. Negotiations would soon be complete on the control of the handling of Dangerous Drugs in hospitals. Replying to MR. VICTOR REED and to MR. J. E. GOODALL, West Middlesex, he said nothing was now causing serious trouble in the question previously brought forward of non-pharmacists dispensing in health centres.

MR. H. G. TIBBETT, South-west Metropolitan, said that pharmacists were needed on hospital management committees and boards, and asked whether the Council had any influence with the Regional Hospital Boards.

MR. J. A. MYERS, Bradford, pointed out that any pharmacists on management committees were not there as representatives of pharmacy. He referred to the injustice of putting non-technical supplies officers over pharmacists earning much lower salaries, and said little headway had been made in putting the matter right.

MR. J. J. THOMAS, East Kent, thought the remedy for inadequate representation on Regional Committees lay rather in the locality than at Bloomsbury Square. Most Regional Committees were only too glad to find a man who understood the technical problems.

MR. H. C. SHAW, summing up, said the Council wanted to see pharmacists on hospital management committees but the extent of their power to achieve it was difficult to gauge. They were making representations about supply officers, but were not entirely free in the matter.

(To be concluded)



CONFERENCE BANQUET

THE Conference Banquet took place with full civic honours at Blackpool Casino on Tuesday evening. The guests interrupted in turn the electric beam that gave them "open sesame" through the glass doors, and were received and welcomed by the president of the Society and Mrs. Shaw, the chairman of the Conference and Mrs. Evers, the chairman of the local Conference committee and Mrs. Dawson Cook.

Proposing "The County Borough of Blackpool," THE PRESIDENT OF THE PHARMACEUTICAL SOCIETY (Mr. H. Clement Shaw) said Blackpool was especially fortunate in its choice of mayor and mayoress, and the dignity of the town was in good hands. Members of the Conference were grateful for the courtesy and kindness shown them by the town's chief official and his colleagues. Blackpool's contribution to positive health in providing rest and a "gingering up" especially to industrial workers must have been an important factor influencing productivity. That effort should receive the endorsement of the Ministries of Health and Labour. Mr. Shaw took the opportunity of making the mayor "a member of the Pharmaceutical Society for the remainder of the Conference."

Tribute to Pharmacist Alderman

THE MAYOR (Alderman Alfred Salisbury, J.P.) replied. If the town had been of service to the Conference, he said, it was a matter of pleasure to all. It had been said that the chemists of Blackpool were an asset to the town. Of one in particular was that true—Alderman Bailey, J.P., M.P.S., chairman of the Health Committee of Blackpool Corporation.

What was described as the principal toast of the evening was given by the Recorder of Blackpool (Mr. Edmund Rowson, K.C.) who proposed "The British Pharmaceutical Conference." He referred to the formation of the Conference by "a body of gentlemen who wished to discuss pharmaceutical and chemical problems and to improve their profession." No science, he thought, had progressed more than chemistry, as shown by its influence on

the conquest of disease and in the improved health of the public.

THE CONFERENCE CHAIRMAN (Dr. Norman Evers) replied. Although this was the first occasion on which the Conference in its eighty-six years' history had visited Blackpool, he said, the visit was the sixth to Lancashire, and Lancastrians would be interested to know that their county was now on a par with Yorkshire.

Visitors, Guests, Ladies

"The Guests and the Visitors" was proposed by THE CHAIRMAN OF THE LOCAL CONFERENCE COMMITTEE (Mr. J. L. Dawson Cook), who first extended a special welcome to visitors from the Pharmaceutical Societies of Ireland and Northern Ireland and from other overseas countries. He coupled the ladies with the toast, and paid a special tribute to the Blackpool ladies' committee who, both before and during the Conference, had worked as loyally and effectually as when, during the war, they had raised £1,000 for the Pharmaceutical Society's War Aid Fund. Finally, Mr. Dawson Cook spoke of the debt local pharmacists owed to Alderman D. J. Bailey, J.P., a founder member of the former Blackpool Pharmacists' Association, the precursor of the present Blackpool Branch of the Pharmaceutical Society. Alderman Bailey, he said, had, as vice-chairman of the Executive Council and chairman of the town's Health Committee, made a worthy contribution towards establishing Blackpool as "the finest health centre in the world."

The reply was by the town's MEDICAL OFFICER OF HEALTH (Dr. George Murray, D.P.H.). Dr. Murray directed his remarks principally to the scientific side of the Conference which "had helped to give medicine its armamentarium against disease." Since the first meeting in 1863, the medical world had witnessed many discoveries—for example, the arsenicals, the sulpha drugs and the antibiotics.

As toastmaster, Mr. S. DURKIN gracefully thanked Mr. Frank Brecknell, M.P.S., St. Anne's, who had organised and taken part in the musical items of the evening.



CLOSING SESSION

At the closing session of the Conference on Friday the president of the Society (Mr. H. Clement Shaw) was supported on the platform by the Conference chairman (Dr. Norman Evers), Messrs. G. R. Boyes, P. A. Brady, H. Brindle, H. Treves Brown, B. A. Bull, H. H. Cowzer, H. L. Dawson Cook, H. Deane, T. Durkin, N. Evers, A. G. Fishburn, C. H. Hampshire, S. Hughan, J. W. Macfarlane, J. F. McNeal, A. D. Powell, H. G. Rolfe, P. Varley and T. E. Wallis.

Thanks to Local Committee

A vote of thanks to the local committee was proposed by MR. FRED STOREY, Belfast, who said the local chairman, "a tower of strength," had been supported by an able band of colleagues, some of whom he singled out for special mention. MR. H. DEANE formally seconded, and the vote was carried with acclamation. DR. NORMAN EVERS then presented the local chairman (Mr. J. L. Dawson Cook) with a bound volume to be kept as a memento of the 1949 meeting at Blackpool.

MR. J. L. DAWSON COOK, replying, said that the book would be inscribed and treasured as a memory of the Conference. He thanked Mr. Storey and Mr. Deane for their remarks and said that he had been supported by a most loyal team and working committees. He was moved by the appreciation of the members for his team's work.

Presenting the annual report for 1949, MR. H. TREVES BROWN stated that in addition to members, honorary members, student associates of the Pharmaceutical Society, and members of the Pharmaceutical Society of Northern Ireland, the Conference included sixty-nine members elected by the Executive. Twenty-two papers were submitted and accepted. The Council of the Society again placed at the disposal of the Executive a sum of up to £500 which had been used to assist younger members to attend the Conference. Thirty-eight members took advantage of the offer. The Executive have received invitations to visit Harrogate in 1951 and Nottingham in the following year.

Officers for Coming Year

The following officers have been nominated for 1949-50:—*President: (ex-officio)* the president of the Pharmaceutical Society of Great Britain. *Chairman:* Mr. A. D. Powell. *Vice-president:* Mr. E. Saville Peck. *Vice-chairmen:* Messrs. R. R. Bennett, C. H. Hampshire, F. W. Crossley-Holland, H. Deane, H. Humphreys Jones, A. R. Melhuish, T. E. Wallis, H. Brindle, B. A. Bull and Norman Evers. *Treasurer:* Mr. G. R. Boyes. *General Secretaries:* Messrs. H. Treves Brown and H. G. Rolfe. *Other members of Executive:* Messrs. H. Davis, A. G. Fishburn, T. Marns, K. Bullock, E. F. Hersant, T. D. Whittet, with the following nominated by the Council of the Pharmaceutical Society of Great Britain: Miss M. A. Burr, Messrs. A. A. Meldrum and J. F. McNeal, and the following *ex-officio:* The president, Pharmaceutical Society of Ireland, the president, Pharmaceutical Society of Northern Ireland, the chairman of Executive, Scottish Department, the chairman of the Local Committee and the local secretary.

Reports Adopted

DR. G. E. FOSTER, proposing acceptance of the report, said it showed a healthy state of affairs. The success of the Conference depended in large measure on the ability of the chairman. He had served with the newly appointed chairman (Mr. A. D. Powell) on a number of pharmaceutical committees, and had known him well over many years. The chairmanship of the Conference called for a great number of qualities Mr. Powell possessed. The office would be a fitting climax to a distinguished career. He also welcomed the new members to the Executive. MR. R. L. STEVENS seconded the motion, and it was carried unanimously.

MR. POWELL replied. It suited him well, he said, to be brief, and "on behalf of all the newly elected" he would simply say "Thank you." He would always regard his predecessor as having reached the pinnacle of chairmanship, but would do everything in his power to live up to the standard.

Treasurer's Report

The treasurer's report, presented by Mr. G. R. BOYES, recorded the excess of income over expenditure during the year ended December 31 as £25. During the year £59 voted by the Executive as a contribution to the Corfield Memorial Fund was paid over from the accumulated balance to that fund, leaving as assets a cash balance at the bank of £318, with Consols to a nominal value of £1,250 and Savings Bonds to a nominal value of £200. Subscriptions from elected members, including a composition fee from the Pharmaceutical Society of Northern Ireland, amounted to £97. The expenditure of £704 was included in the Pharmaceutical Society's financial statement presented at the Society's annual meeting in May.

The acceptance of the report was formally proposed by Mr. H. C. SHAW (Conference president), seconded by Mr. J. F. MCNEAL (vice-president of the Pharmaceutical Society), and carried unanimously.

Invitation to Glasgow

THE CHAIRMAN then asked the Conference to receive an invitation from the Glasgow and South-western Scottish Branch of the Pharmaceutical Society to hold its

meeting in 1950 at Glasgow. Mr. S. HUGHAN (chairman of the Branch), said that it was his privilege to extend the invitation to the Conference on behalf of his Branch for the week beginning September 4. The invitation had the blessing of the Lord Provost, magistrates and corporation of the City. Although the City had no seaboard it stood at the gateway to the highlands and the Conference would be assured of a warm Scottish welcome on the occasion of its visit.

Miss E. F. HAYWARD, London, proposed acceptance of the invitation. Mr. D. C. M. ADAMSON, Welwyn Garden City, seconded, and the proposal was passed unanimously.

Dr. K. BULLOCK then proposed a vote of thanks to Dr. Norman Evers. He said that both in 1948 and 1949 Dr. Evers had been a charming chairman. His criticism was constructive, his praise warm, his style helpful and kindly, and he had a keen sense of humour.

Mr. A. G. FISHBURN, seconding, said that Dr. Evers had raised the standard of the Conference by his chairmanship.

Dr. EVERS acknowledged the vote of thanks, and paid tribute to the Conference officers and Executive.

CONFERENCE SIDELIGHTS

At luncheon on Thursday, THE CHAIRMAN read telegrams of greeting from Dr. E. Host Madsen, Copenhagen (one of the distinguished overseas visitors at the Brighton Conference in 1948) and from the secretary of the German Pharmaceutical Association. He read also a message of thanks from Mr. A. R. Melhuish for the telegram of congratulation sent from the Conference earlier in the week upon "joining the select band of octogenarians."

Excursion to Fleetwood

Tuesday's "ladies' excursion"—in which at least an equal number of men participated—was to the Fylde coast, through Bispham, a cliff suburb of Blackpool, and Cleveleys, past Rossall College to Fleetwood, an attractive modern resort at the mouth of the Wyre. Here the party halted for tea in the Marine Hall. Resuming their journey, the excursionists were conducted through Poulton-le-Fylde, formerly a flourishing port and the scene of a Roman settlement. The remainder of the jour-

ney back to Blackpool, via Staining, Lytham and St. Annes, was through pleasant pastoral country, bathed in mellow autumn sunshine. A Welsh contingent in one of the coaches and the French visitors in another enlivened the journey with melodious renderings of their national songs.

French Delegates Lay Wreath

A wreath inscribed "Delegates of the Pharmaceutical Federation of Western France attending the British Pharmaceutical Conference in Blackpool honour the memory of all the British comrades who gave their lives in the cause of liberty" was laid at Blackpool Cenotaph on September 16. At the ceremony there were present: MM. Albert Poste (president of the Federation), Maurice Suard (president, Federal Union of Pharmacists of France) and Léon Gentil (president, Association of Finistère Pharmacists) and their ladies, Messrs. Norman Evers (chairman of the Conference), H. Clement Shaw (president,

Pharmaceutical Society of Great Britain), Hugh N. Linstead, O.B.E., M.P. (a secretary of the Society), and C. W. Macfarlane (chairman of Executive, Scottish Department), Dr. S. McCall (resident secretary in Scotland), Messrs. J. L. Dawson Cook (chairman, Conference local committee), F. J. Carter (vice-chairman and treasurer), P. Varley (administrative secretary), T. Durkin (organising secretary) and ex-SERVICE men from England, Scotland, Northern Ireland and Eire.

Sport

After the perfect weather of the previous four days, Friday's fury of wind and rain threatened to eliminate the sports competitions of the Conference. Entrants unprepared against the rain had to scratch

Shore Golf Club to meet the competitors at the clubhouse. He presented the Edmund White trophy and replica to the winner, and a smaller replica to the runner-up. A vote of thanks to the Club for its hospitality was put by Mr. T. Durkin, who also notified the competitors that the trophy was being forwarded to Glasgow for competition in 1950.

In the bowls competition the English team (Messrs. Gordon Gardiner (skip), W. Clark, J. F. McNeal and J. Reed) held the cup by default, as the Scottish team, with a look at the weather, decided play was impossible, and failed to present themselves at the greens.

Window Display

Commendable enterprise was shown by Miss L. I. Anderson (secretary of the Conference Ladies' Committee) in showing, at premises taken but not yet occupied by her as a pharmacy near Blackpool North station, a special display of books and apparatus. Among the exhibits were copies of *THE CHEMIST AND DRUGGIST* and *C. & D. Diary and Year Book*.

The banquet menus provided by *THE CHEMIST AND DRUGGIST* were given an "advance notice," by the "Lancashire Evening Gazette" on July 9. "Piquant feature of menu cards for the Conference dinner," it stated, "will appear on the menus in the form of caricatures of officials," going on to give details of the individual caricatures.

Conference Week Sayings

"I distribute books—not write them."
—Miss A. LOTHIAN, the Pharmaceutical Society's Librarian.

"Those lovely dears called ladies."
—MR. FRED STOREY, C.B.E., Belfast.

"I can't quite explain it—it's been marvellous."
—MR. J. L. DAWSON COOK, chairman of the Conference local committee.

"Brevity can be the soul of sincerity."
—MR. A. D. POWELL, next year's Conference chairman.

"I am not a storekeeper."
—DR. D. E. FOSTER, Dartford, at the Symposium Session.

"I hope to bring the Law Department into the Pharmaceutical Society's family circle."
—MR. W. R. ROBERTS, the Society's chief inspector.

"Let's have a rest from the ever-recurrent diagrams of bent-glass tubing."
—MR. W. DAVID, Glamorgan,



C. & D. artist's sketches of local organisers, reproduced from Conference Banquet menus.

from the golf but six heroes braved a soaking and returned highly commendable figures. Last year's winner, Mr. E. Robinson, Bradford (17) was again victorious, with a score of 75 net. The other scores were: H. Burlinson, Kersal Vale (12), 82; W. E. Phillipson, Manchester (7), 86; H. Davis, London (12), 89; and A. H. Newcomb (6), 94. The Conference president and chairman motored out with the local chairman and secretaries to the North



CONFERENCE PERSONALITIES

MR. H. I. and MRS. LIM, Java, joined the Conference on Wednesday of Conference week and took part in the all-day excursion to Windermere.

DR. J. W. FAIRBAIRN, B.Sc., Ph.C., author of a paper on the active constituents of vegetable purgatives containing anthracene derivatives, served his apprenticeship, and later a period of assistantship, with Mr. R. Pool, Gosforth, Newcastle-on-Tyne, 1929-34. After study at the College of the Pharmaceutical Society he passed the Pharmaceutical Chemist examination in 1936, re-

maining at the College for a year as demonstrator under Dr. T. E. Wallis. During the years 1937 to 1939 he held a post as assistant lecturer at Sunderland Technical College, gaining his B.Sc. (London) in his second year there. He then joined the staff of Imperial Chemical Industries, Ltd., Billingham-on-Tees, as a laboratory chemist, leaving in 1941 on his appointment as assistant lecturer at the College of the Pharmaceutical Society under Dr. Wallis. In 1946 he obtained his Ph.D. (London) for a thesis on nux vomica and cardamom, and in the same year was appointed head of the department of pharmacognosy, School of Pharmacy, University of London—a post he still holds.

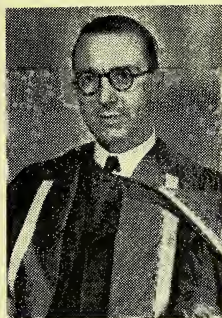
MR. HAROLD LOMAX, Liverpool, who fell and sustained an injury to his leg while walking down the steep slope to the pier at Bowness during the Conference excursion to Windermere, is making satisfactory progress after treatment.

MR. J. FOSTER, M.P.S., Breck Pharmacy, 11 Breck Road, Poulton-le-Fylde, is the oldest pharmacist in business in the Fylde. Mr. Foster is senior warden of the

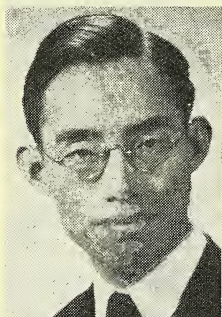
parish church of St. Chads, Poulton. He is proud to be "one of the chemists of the old school."

LIEUTENANT-COLONEL ABDUL HAMID SHAIKH, C.I.E., I.M.S., retired, B.A. (Punjab), M.B., Ch.B. (Edinburgh), was present at the Conference as representative of the Pakistan Government. Colonel Shaikh specialises in social psychiatry, and has studied that subject in London, Vienna, and New York. He is the author of a number of publications on the prevention and correction of delinquency, and in 1947 was adviser to H.E.H. the Nizam's Government on gaol reform.

MR. J. B. LLOYD, M.P.S. (one of the opening speakers at the Symposium Session) has had for many years as his main pharmaceutical interest the preparation of parenteral solutions and other sterile products in hospital pharmacy. Since 1947 he has been chief pharmacist at the Manchester Royal Infirmary. Previously he served for a number of years first as senior assistant, and later as chief pharmacist, Salford Royal Hospital. Apprenticed to Mr. G. W. Waters, M.P.S., at Ellesmere Port, Ches, Mr. Lloyd qualified in 1931 after studying at Manchester University. The same year he joined the staff of the Manchester Royal Infirmary, where he served until he left in 1934, when he took up his first appointment at Salford Royal Hospital. He is a member of the Executive Committee of the Manchester Branch of the Pharmaceutical Society, and is the hospital pharmacist representative on the Manchester Pharmaceutical Committee. In 1947 he was elected to the Council of the Guild of Public Pharmacists—an organisation of which he had been local secretary for some six years.



Mr. T. C. Lou, B.Pharm. (London) (author of a paper on



the biological assay of vegetable purgatives) is a research assistant in pharmacognosy at the School of Pharmacy, University of London. Mr. Lou qualified as a pharmacist in China in 1942 and was for two years assistant in pharmaceutical chemistry at the School of Pharmacy, Army Medical College, China. During that

period he was awarded an Evans scholarship, and came to England for further study. He graduated in 1947, and is now taking his Ph.D. at the University of London. Mr. Lou intends to devote his future career to teaching and research.

Mr. J. K. SEN, M.Sc., Calcutta, India, has been conducting research on enzymes in the department of pharmacy, University of Manchester, in order to write a thesis for the Ph.D. degree. Mr. Sen graduated with honours in chemistry from Calcutta University in 1945, and took his M.Sc. in organic chemistry from the same University two years later. When he has completed his work in Britain it is his intention to engage in industrial pharmacy in India.

Mr. LEON GENTIL, Quimper, Brittany, obtained his pharmacist's diploma at the Faculty of Strasbourg in 1939, and has also qualified in optics. He is now in retail business at Quimper. As president of the *Syndicat des Pharmaciens du Finistère*, he was the organiser of the Congress of Pharmacists of West France in May 1949, when they received delegates from Scotland, including Dr. S. McCall, the Society's resident secretary in Scotland. He is a member of the Administrative Commission of the Hospital Centre of Quimper, and a member of the health council of the area.

PROFESSOR M. G. SUARD, Paris, obtained his pharmacist's diploma from the Faculty of Nancy in 1925, and later worked in laboratories under Professor Grélot. In 1927 he passed the examination of *Chef de Travaux de Chimie* at the phar-

macy school of Angers, and took up work on the biological chemistry of plants under the direction of the Professor of the Faculty of Pharmacy in Paris. Later he went to the laboratory of Doyen Domicus, where he prepared for the *Diplôme d'Etudes Supérieures de Pharmacie*, which he obtained in 1937. He was appointed Professor of the biological and analytical clinic at the School of Medicine and Pharmacy at Angers the same year. During the war he joined the resistance movement under Colonel Keiny, and was imprisoned by the Germans in Buchenwald and elsewhere. On returning to France he was appointed president of the *Union Fédérale des Pharmaciens de France*. Mr. Suard is also president of the pharmacists' syndicate of Maine and Loire.

MR. ALBERT POSTE, Quimper, Brittany, obtained his pharmacist's diploma from the *Faculté de Lyon* in 1927. A former student of the School of Military Health, Lyons, and of the *Ecole d'Application du Val de Grace*, Paris; he has practised at the *Hôpital Thermal d'Amélie-les-Bains* and in a hospital in Algeria. He is now in retail practice as well as being pharmacist at the Psychiatric Hospital of Finistère. He is also a member of the Departmental Council of Hygiene. After the liberation of France, M. Poste was made president of the Pharmaceutical Federation of Western France.

MR. J. H. OAKLEY, Ph.C., who is a joint author with Dr. R. E. Stuckey of a paper on variations in colour of liquid extract of liquorice, has been in charge of the production of galenical preparations at The British Drug Houses, Ltd. since 1946. Apprenticed in Boots, Ltd., in the West-end of London he obtained his Pharmaceutical Chemist diploma in 1939 after study at the Pharmaceutical Society's School. He then joined the staff of the School as a demonstrator in pharmaceuticals. In 1942 he joined the Royal Navy, serving as a Sick Berth Attendant, and later as a Gunnery Control Officer.





SYMPOSIUM SESSION

PAPERS by Dr. T. E. Wallis and Messrs. L. H. Boardman and J. B. Lloyd opened the symposium session on "The Storage of Drugs and Medicines," held in the foyer of the Opera House, Blackpool, on September 16. Dr. Norman Evers presided.

Storage

DR. T. E. WALLIS read the first paper, which is here summarised. Storage must be considered in relation to the various departments of pharmaceutical practice—cultivation of vegetable drugs; wholesale dealing; hospital practice; and retail trade. The fundamental factors affecting the stored materials, however, are the same. The features of environment (the most fundamental subject in storage) which should be considered are: 1, Atmospheric humidity and type of soil; 2, temperature; 3, light; 4, oxygen of the air; 5, living agents of destruction; and 6, odorous commodities.

Atmospheric Humidity

Moisture in the atmosphere is generally expressed as humidity. When the atmosphere is completely saturated, the humidity is 100 per cent., when half saturated, 50 per cent. and so on. If the humidity is over 75 per cent., it becomes dangerous in relation to storage. Under such conditions moisture is readily absorbed by certain chemical substances (including salts of penicillin); and by certain crude drugs (such as squill, gelatin, gentian and digitalis). When the humidity is low, water tends to be lost by some substances, and they are said to effloresce.

Moisture in the atmosphere is to some extent dependent upon the nature of the soil upon which the premises are built. A clay soil retains much moisture. Sandy soils lose moisture rapidly by drainage and, being non-colloidal, do not tend to retain much in loose association with the particles of the soil as usually occurs in a clay soil. Where underground cellars are used for storing stock, these considerations assume a major importance.

Temperature

For general storage, an ideal temperature is about 55° to 65° F. (10° to 14.5° C.) which, being slightly higher than the normal temperature for a great part of the year and being maintained constant day and night, reduces the humidity and minimises the risk of sudden changes in humidity. Materials so stored therefore remain dry and tendency to attack by vegetable and animal organisms is reduced.

For certain substances which are liable at ordinary temperatures to molecular change (such as insulin and penicillin), storage in a refrigerator is necessary. When large refrigerators are available many drugs, such as ginger and chamomile, which are specially subject to bacterial or insect attack, may be successfully stored for long periods in them.

Moisture and temperature together have a combined effect upon the premises and upon the materials stored in them. For example, air at 9° C. (=48° F.) contains 8.7 mgm. of moisture per litre, when saturated, whereas it requires twice as much moisture (viz. 17.15 mgm.) to saturate one litre of air at 20° C. (=68° F.). If, then, there is a sudden change in temperature from 20° C. to 9° C., as when moist warm air from outside enters a cold room or house, the air becomes over-saturated and half the moisture present is thrown out as water on the walls, ceilings and the contents of the room.

Light

Exposure to sunlight will remove the colouring-matter from many drugs. This loss is obvious, but other changes are induced which are not visible to the eye and sensitive constituents such as the glycosides of digitalis, may be destroyed. The vitamins as a group are sensitive to light, the active constituents of rhubarb are orange yellow in colour and gradually change under the influence of light to a pinkish tint. Several colourless substances acquire colour by exposure to light, such as santalin, silver nitrate, and phenol.

Oxygen of the Air

Oxidation of many active principles is brought about by atmospheric oxygen, as exemplified by the resinification of the cannabinal of Indian hemp and the gradual loss of solubility in light petroleum of the abietic acids of colophony. Linseed oil and many volatile oils, notably oil of lemon and turpentine, resinify by exposure to the air, owing to oxidation effects. Cod-liver oil contains unsaturated fatty acids which break down by the action of oxygen causing rancidity and resinification of the oil.

Moisture, temperature and oxygen together encourage the development of many living organisms, such as moulds, mites, silver fishes, moths, ants, small beetles and cockroaches, which feed upon the substances stored. The most important factor in controlling these living organisms is moisture, for without sufficient moisture protoplasm cannot retain its life and activity. A temperature, in the neighbourhood of 0°C. , is useful to prevent the development of organisms from spores and eggs, but storage at that temperature does not usually destroy them.

General Rules

The drafting of general rules for storage involves a consideration of the construction of the store premises; means for protection against dust; shelving; packaging; and the special problems of inflammable substances.

In general, rooms should have concrete floors and rounded corners; any crevices should be filled in with cement. An equable temperature should be provided, usually cool. This is one reason why a dry cellar is often a good location for a store.

Dust contains detritus of inanimate matter, spores and small living organisms, which under favourable conditions will develop and lead to the infestation of the stores. Dust must therefore be excluded as far as possible. Packing-rooms should be separate from the store, and packing materials, bags and sacks, should not be kept near the store. Machines used intermittently must not be left about in a dirty condition.

Shelving and its Arrangement

Stacks of shelving should be kept away from the walls; the lowest shelf being about one foot from the floor and the

highest three feet from the ceiling. This avoids contact with condensed water streaming down walls, from moisture upon the floor and from hot moist air near the ceilings. Island stacks of shelving kept away from the walls are to be preferred to shelving that is fixed flush against the walls.

Bags and sacks should be sterilised by some process such as heating to 150°F. (65°C.) for three or four hours or by thorough washing. When filled with vegetable drugs, etc., they should be kept off the floor on a staging of slats, or they can be hung from hooks. Packages must be well closed and made of materials resistant to attack by insects and other destructive animals. Paper wrappings must be closely folded and sufficiently tightly closed to exclude moths and beetles seeking places to lay their eggs. Where the store permits access of sunlight, opaque or amber-glass containers must be used when light is deleterious to the contents. Inflammable substances must be kept in a store remote from the main buildings.

Official Directions

The 1948 British Pharmacopœia places increased emphasis upon the storage of drugs and chemicals. There is also the new requirement that "vegetable drugs are required to be free from insects and other animal matter and from animal excreta." For certain preparations such as some vaccines, the period of storage is prescribed, usually in relation also to temperature. Similar requirements will be appended to many of the monographs of the new British Pharmaceutical Codex.

Storage in Industry

MR. L. H. BOARDMAN said storage of galenicals and pharmaceuticals from the manufacturers' point of view covers a wide variety of subjects, the ultimate object being to determine the best conditions under which one should keep and supply pharmaceuticals in order that the user may obtain them in the best possible condition. The problem is bound up with the use of preservatives.

The warehouse or factory should be constructed to avoid the access of rodents, flies, cockroaches, weevils, beetles, etc., and to avoid general uncleanness from storage bins, accumulation of dust, etc.

In modern buildings, concrete, brick and steel will usually prevent rodents, but with

older buildings every effort should be made to seal all entries through pipes, etc., with wire mesh, and basements should be well lighted and have no dead spaces between walls, floors, etc. A regular system of pest destruction should be undertaken. Prevention of insect contamination is not easy, but cleanliness of the walls and floors and the use of a mixture of pyrethrum and D.D.T. will eliminate most insect life.

Other sources of contamination are the moulds, yeasts and bacteria. Proper sanitation in manufacturing and packaging and proper control of the manufacturing plant and the use of clean equipment will do much to prevent this contamination.

For small articles and powdered drugs, metal bins of stainless steel, galvanised iron or black metal, with well-fitting lids, are preferable to wood bins. Ergot may prove difficult to store for a long time, also figs and prunes which are only allocated once a year. For these drugs, metal bins with tight-fitting lids, and the application of chloroform, have been proved satisfactory. Packing materials should be regularly inspected and maintained in a clean condition. Air-conditioning and the use of ozonisers to eliminate smells are also worthy of mention.

Bulk Containers

Wood is suitable for storing many galenicals, oak being very suitable. Casks up to 200 gallons capacity can be handled fairly easily, they stand a lot of knocking about, and can be cleaned by treating with calcium bisulphate and hydrochloric acid followed by washing and steaming. Such containers are suitable for storing liquid extracts and infusions, where the alcohol content is low. Stainless steel and pure electrolytic nickel make excellent storage vessels particularly for tinctures where the alcohol content is high and loss of alcohol must be minimised.

The selection of the correct stainless steel for any purpose requires experiments under laboratory and plant conditions to be conducted. It has been shown that galenicals over long periods will attack certain stainless steels, or that the appearance of the galenical, its aroma and flavour will be altered. Pure electrolytic nickel is suitable for tr. bellad., tr. digitalis, tr. capsici, tr. nux. vom., tr. opii, tr. scillae, tr. zingib., ext. ipecac. liq., tr. aurant and tr. quinin ammon., cascara preparations and compound syrup of figs.

Aluminium vessels are suitable for preparations containing methyl salicylate and senna preparations. Stone tanks can make useful storage vessels for large quantities of mildly acid materials. Acid-resisting asphalt can be used for caulking the seams. They can be easily cleaned. Acid preparations can be kept in glass or earthenware, but care has to be exercised in handling.

In practice a temperature of about 60° F. has proved satisfactory, but conditions can sometimes be varied with advantage. Most liquid galenicals tend to deposit over quite a long period of time probably due to coagulation of colloidal matter.

In general, galenicals should be stilled for periods from one to six months in order to have them in the best condition. Even then different conditions in the shop can bring about changes and cause deposits.

Storage in Small Containers

Usually glass is the substance of choice for small containers, but many other materials are being used such as aluminium and certain plastic materials (for tubes and other screw-type containers), waxed board with screw caps (for ointments and confections), metal tubes of pure and tin-coated lead, and aluminium.

For reagent bottles the use of polythylene is being recommended and used particularly in America. Polythylene is said to be resistant to all acids and alkali up to temperatures of 160° F., and many organic solvents at temperatures up to 125° F., and is less fragile than glass. Pure aluminium containers are also being recommended as suitable for concentrated hydrogen peroxide stabilised by the addition of about 1 part per million of sodium stannate or sodium pyrophosphate. Pure tin tubes are satisfactory for almost all ointments, and such preparations as ichthammol and emulsion base ointments.

A cheaper tube is made from tin-coated lead, but the tin coating is not always evenly applied. Aluminium tubes are not always satisfactory particularly with certain emulsion bases of the saturated fatty alcohol type. Lengthy shelf tests should be carried out before choosing tin-coated lead or aluminium tubes.

Moulded caps of synthetic resin make suitable closures and are usually better and more elegant than enamelled metal closures. Metal closures are, however, cheaper, and are usually made of tinplate or aluminium.



SCIENCE SESSIONS

[Continued from THE CHEMIST AND DRUGGIST, September 17, p. 394].

THE concluding three papers at Tuesday morning's session were taken together:—

Microbiological Assays Using *Lactobacillus Lactis*

By G. E. SHAW

[ABSTRACT]

THE difference between *Lactobacillus lactis* Dorner and other organisms used in microbiological assays is that it is much more prone to variation formation. Under optimum conditions assays using that organism were more consistent than with any other microbiological assays performed in the author's laboratories. Means are described for assessing the extent of interference with the assay of inhibiting materials and growth factors for *L. lactis* Dorner other than vitamin B₁₂. (From the Evans Biological Institute, Runcorn, Ches).

L. Lactis Activity of Liver Extracts

By G. E. SHAW

[ABSTRACT]

A NUMBER of commercial liver extracts have been assayed for *Lactobacillus lactis* Dorner activity in terms of vitamin B₁₂ and considerable variations from brand to brand and between different batches of the same brand have been found. Although steps have been taken to eliminate artefacts due to method and the presence of inhibitors, it is not possible at present to correlate exactly *L. lactis* Dorner activity with clinical efficacy. It is thus premature to advocate the establishment of a "Dorner" assay unitage for all liver extracts, but it is not too much to expect that, in the future, branded preparations will maintain a reasonably constant "Dorner" activity. The presumptive vitamin B₁₂ content of "high potency" liver extracts is of the order of 10 µgm./mil whether of British, American or Continental manufacture. (From the Evans Biological Institute, Runcorn, Ches).

Vitamin B₁₂ Concentration in Liver Extracts

By W. F. J. CUTHBERTSON, JOAN F. LLOYD
AND W. B. EMERY AND K. E. LEES

[ABSTRACT].

A NUMBER of different liver extracts have been assayed for vitamin B₁₂. The results obtained demonstrate the wide differences between extracts from different manufacturers, the low potency extracts ranging from 0.23 to 6 µgm./mil, while medium and high potency extracts vary over the ranges of 0.1 to 4.3 µgm. and 0.2 to 22 µgm. B₁₂/mil respectively. These variations would hardly be expected if adequate clinical trials had been carried out on all batches, and may be ascribed to differences in manufacturing technique, quality of raw materials and clinical control (if any) of the products. Different batches of the same extract made by the same manufacturer may show a wide range of B₁₂ concentrations. Liver extracts prepared in the author's laboratories are clinically tested, typical cases of Addisonian pernicious anaemia in severe relapse being used, preferably those showing a red cell count between 1 and 2 million cmm. The patients receive by intramuscular injection a single test dose of the extract. If the responses of the individual patients are considered and if a response of 90 per cent. of that expected is taken as indicating activity of the liver extract, then it can be seen that samples containing less than 10 µgm. per mil are much less satisfactory than those containing more than 10 µgm. per mil. (From the Research Division, Greenford, Middlesex, and the Fermentation Division, Barnard Castle, co. Durham, of Glaxo Laboratories, Ltd.)

The paper was read by Mr. Lees.

DISCUSSION

THE CHAIRMAN said that if the figures given represented the content of vitamin B₁₂ in liver extracts they presented a disturbing picture. DR. C. H. HAMPSHIRE regretted that Mr. Cuthbertson had referred to the U.S.P. unit, which was no unit but an expression of opinion by a

self-appointed body and was based on methods of investigation not fully disclosed. It was unpopular internationally. He hoped that a truly scientific method of comparative evaluation could soon be devised, and that it would please those seeking uniform standards.

DR. F. HARTLEY said that a comparison of the author's work as published revealed apparent discrepancies, though the abstracts as read helped to resolve them. Mr. Shaw had shown no histogram for his standard, though as the results he obtained were three times larger than expected, the papers were thereby brought more into line. Speaking on the third paper, Dr. Hartley mentioned that different strains of organisms give different results with the same standard. He produced a plate showing two tests using American-type culture 10597, and suggested that the picture might be modified again. Dukes and Lester Smith had shown that there might be a family of vitamins B_{12} chemically active. The difference in vitamin- B_{12} content of test doses of liver extract recorded indicated that standardisation of liver extracts on vitamin- B_{12} content alone does not indicate the therapeutic activity. MR. WHITTET remarked that the work was of importance to hospital pharmacists, as they had to carry large stocks of liver extracts of different dose and price. Were the factors present in refined preparations? DR. FOSTER asked if the cultures could be kept in a dry state.

MR. SHAW, replying, said that a histogram for standard had been made but was omitted from the report. It was identical with that of the extracts. His observations had led him to wonder if there were much crystalline vitamin B_{12} in the extracts. He had examined extracts from animals treated in different ways, each adjusted to have the same nominal effect. On test, however, one proved to have a normal vitamin- B_{12} histogram and clinical effect while others had peaks all over the histogram and no clinical effect. It should be realised that clinical assays were not mathematical formulæ and that they were an indication that if a case had been satisfactorily treated it gave a response. There was no evidence that the same dose would give the same results if administered in other cases with the same R.B.C. level. He had previously dealt with the absurdity of the U.S.P. unit. MR. LEES said it was generally recognised that the U.S.P. unit

was unsatisfactory, but it was considered necessary to refer to it in the paper. It was not possible to say if the factors were present in refined extracts. This work had been an attempt at scientific testing of liver extracts; though Mr. Shaw had developed his chromatograms for eighteen days he (Mr. Lees) had found twenty-four hours enough.

Variations in Colour of Liquid Extract of Liquorice, B.P.

By J. H. OAKLEY AND R. E. STUCKEY

[ABSTRACT]

COLOUR differences in liquid liquorice extracts are usually noticed in the dispensing of mixtures having the extracts as a constituent; the dilution obtained in such mixtures is often what might be called the "critical" colour range. Variations in colour are not readily apparent until a dilution of 1 in 10 is reached, but differences can be detected in dispensing a number of common National Formulary mixtures. The colour variation occurring in samples of extract prepared according to the official instructions may result from the standardisation of the preparation on its content of total water-soluble extractive, and on changes in pH value. (From The British Drug Houses, Ltd., London, N.1.).

DISCUSSION

THE CHAIRMAN said it was remarkable how long chromatography had taken to appear at the Conference, but it now appeared coming in with a rush. Dr. J. M. Rowson congratulated the authors and said pharmacists had stimulated pharmacognosists. Dr. Mitchell, London, thought red predominant in colour values. If so, were the figures tabulated by the author of value? There seemed to be a buffering effect corresponding to a jump in colour effect. He had not encountered serious variations.

MR. OAKLEY, replying, had no information on the chemical nature of the colour. Caramelisation as a possibility had occurred to him, but a grossly charred sample had shown little increase of colour. He disagreed about red dominance in colour tests. The yellow dominated. A buffering effect appeared to be taking place. He agreed that colour variation would be little encountered if the same type of root were invariably purchased.

A report of the discussion on the next paper is held over until next week. It was

followed by the first part of a paper on wool alcohols; the paper was read by Mr. Seymour.

Wool Alcohols

PART I.—CHANGES IN PHYSICAL AND CHEMICAL PROPERTIES ON OXIDATION

By GEORGE S. MUIRHEAD, KARL H. OBERWEGER, DONALD E. SEYMOUR AND DONALD SIMMONITE

[ABSTRACT]

THE work refers specifically to the grade of wool alcohols marketed under the trade name Hartolan. In view of observations that wool alcohols, when exposed to atmospheric conditions for considerable periods of time, show a marked increase in fatty acids and when subjected to irradiation with ultra-violet light show marked changes in physical characteristics and rise in acid value (changes slowed down by the addition of small quantities of antioxidants such as tocopherol, pyrogallol, etc.), it was considered that a quantitative study should be made of some of the physical and chemical properties of wool alcohols when irradiated by means of ultra-violet light, exposed to air at normal or elevated temperatures, and when treated with oxygen when molten. The paper records results obtained and methods used. Oxidation was effected under varying conditions and progressive changes in physical and chemical properties were observed. The changes included a rise in acid and saponification values, decrease in acetyl value and cholesterol content. The interfacial tension-reducing power of total wool alcohols and some isolated fractions were measured, using the pendant drop method. This value showed no appreciable change as oxidation proceeded. Wool alcohol emulsions suffer a breakdown on storage accompanied by rise in acid value of the oil phase. It is confirmed that both effects can be retarded by the inclusion of antioxidants in the formula. Some tentative mechanisms based on the results obtained are put forward to explain the changes which wool alcohols undergo on oxidation. (From the Research Department, Herts Pharmaceuticals, Ltd.).

DISCUSSION

MR. A. W. BULL asked for information on rates of oxidation of wool alcohols received by manufacturers with and without anti-oxidants. He suggested that in the new Pharmacopœia attention should be paid to the oxidation of wool alcohols, par-

ticularly in the preparation of penicillin ointments. MR. GILLAM, Leeds, asked for a suggestion on the storage of wool alcohols in bulk.

MR. J. H. OAKLEY, London, said that though the preparation of hydrous ointment on a small scale was often satisfactory, yet on a large scale the product was unsatisfactory. He suggested that the greater heat treatment involved in making large batches might account for that effect. MR. EASTMAN, London, asked if the effect of traces of copper had been studied. Some samples of wool alcohols contained considerable amounts of copper, and the amounts varied in different parts of the batches. MR. STEVENS (Brighton) asked if metal sequestering agents had been tried by the authors. PROFESSOR H. BRINDLE asked whether the lower esters had been tried. Ethyl gallate, in his experience, had seemed particularly useful. DR. MITCHELL suggested that a possible charge of phenolic anti-oxidants might cause the formation of colours. DR. H. DAVIS recommended the use of an anti-oxidant in combination with storage in shallow containers, and instructions should be given concerning storage and containers.

MR. SEYMOUR, replying, said that it was useful not to keep more wool alcohols than necessary in stock. He recommended that material should not be broken up into small pieces and that the film of oxidised material should be scraped off before use. He told Mr. Oakley that the possibility of using an inert atmosphere—for example, carbon dioxide—during large-scale manufacture had been considered. Factors such as packing while warm might have significance. Metals, he thought, might be oxidation catalysts. Lower esters of gallic acid were water-soluble, and might cause colour formation from iron apparatus. Dr. Davis's suggestion was important, though a shallow container would cause a large area of ointment to be exposed to oxidation.

Courses in Salesmanship.—Courses in sales organisation and salesmanship have been arranged at a number of technical colleges in London and the larger provincial towns by the United Commercial Travellers' Association. Particulars of these and of the examinations to which they lead can be obtained from the head office of the Association, 180 Tottenham Court Road, London, W.1.

CORRESPONDENCE

Token Payments

SIR,—Scottish pharmacists are now entering upon the final stage of "token payments"—at least, that is what we anticipate; perhaps we are only starting! I understood that, under the terms which we accepted under strong protest up to the end of September, all forms were to be made up into two bundles: Under 4s. 6d. and over 4s. 6d., the under-4s. 6d. bundle to be paid on the average system and the over-4s. 6d. in full. So far as I am aware, this has not been done. At least, I have been paid only on the average system so far. Why are chemists always to be "stooges"? We faithfully carry out our obligations and are told by the "long-suffering" public that we must be making a fortune!

KILTED.

Lozenges and Tablets

SIR,—In the realm of police court proceedings, as quoted by your correspondent, one is not surprised to learn of confusion of terms, in spite of the British Standards Institution's definitions of lozenges and tablets, which we are reminded were published in 1944. We are, however, rudely shaken when we find this confusion intensified by the inclusion in the National Formulary, 1949, of lozenges and tablets as synonymous terms (examples: Benzocain co. and formaldehyd.). As lozenge makers, we recognise the B.S.I. definition cited as clear and correct, only substituting the word "cut" for "punched," the latter word being more appropriate to tablet-making, but that is by the way. The official defence of the apparent N.F. anomaly to which we have drawn attention is that products intended to be dissolved slowly in the mouth are lozenges. That requirement is served admirably by a true lozenge, but a compressed tablet soon disintegrates into its component granules and is unpleasantly gritty in the mouth. It may be that what is now required is an official definition of the term "synonym."

BLYTON, ASTLEY & CO., LTD.

Manchester.

Dioscorea as Remedy

SIR,—I was very interested in your review of "Compound E (Cortisone)" [C. & D., September 10, p. 338]. For more than ten years I have been working in a large dispensary where 90 per cent. of the

remedies used are plant preparations in the form of tinctures, extracts, decoctions, elixirs, etc. A two-pound bottle of mist. dioscoreæ co. is kept just in front of the dispensing slab with a winchester above for easy replenishment. Just to the right is a smaller quantity of extract of *dioscorea villosa*. Patients come from all over the country and have benefited by it. I gave your review to the practitioner who owns the dispensary. He had already seen it and his comment was: "It has been known down the ages that dioscorea has properties which react upon the human economy in such a way as to relieve, if not clear, such conditions as rheumatism."

Yours faithfully,
Essex. C. M. GOODRICH (Miss).

Price Maintenance

SIR,—It does not seem credible that, as an outcome of the report of the Committee on Resale Price Maintenance, anything should be done to lessen the margin of profit provided by the Proprietary Articles Trade Association's price-protection scheme on proprietary articles sold in the chemists' business. When I first came into the business fifty-eight years ago (1891) price-cutting was very rife; multiple stores of all kinds sold "patent" medicines and the like, at prices often less than the ordinary retailer could buy them. Where I was employed in Suffolk we had in addition to the retail, a wholesale business amongst village grocers, chemists, veterinary surgeons and doctors, and many of them complained that, when they came into the town, they found prices in the stores lower than those we charged wholesale for the goods. In those days we bought £40 worth of Beechams' pills at a time, and they were being sold in the stores at a farthing less than our purchase price. The stores sold tea, sundry goods or other commodities on which they made their profits. Many chemists could not carry on, and had to give up business. The operation of the P.A.T.A. has proved a boon to manufacturer, wholesaler and retailer. After all, price maintenance is like the trade union movement, on which the Government depends, and as long as wages and profits (which are inter-related) are reasonable, it seems the only sane method of doing business.

Yours faithfully,
London, E.4. W. E. GAZE.

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

28 Essex Street, W.C.2, Sept. 21

ALTHOUGH the prospect of revaluing sterling relative to the United States dollar has been discussed in trade circles for some months past the announcement early this week came as a shock to many, particularly when the extent of the fall was realised. Since the Chancellor's statement news of devaluations of other currencies have been coming in, and still more countries may decide to follow suit. It is difficult, with conditions changing from hour to hour to make any accurate assessment of the markets. New prices for ZINC OXIDE are to be announced shortly; the Ministry of Supply has suspended sales of base metals until mid-day on Thursday. In other directions a similar temporary suspension of trading activity has been made. The PHARMACEUTICAL and FINE CHEMICALS markets in products of British manufacture are nominally unchanged except for reductions in BARBITONE, and its SODIUM derivative. BISMUTH, IODINE and MERCURY, to mention only a few raw materials, are being carefully watched; if the costs of these are higher, it may be some time before their salts and derivatives are advanced in price. Inward shipment business in fine chemicals is almost at a standstill with foreign exporters not prepared to make firm offers.

Crude Drugs

In CRUDE DRUGS the situation is even more complicated. Spot quotations for U.S. produce have in a number of instances been advanced by between 20 and 30 per cent., while quotations for Canadian produce have risen by 15 to 20 per cent. Prices of French, Belgian, Portuguese and Jugoslav drugs also, in some quarters, have been marked up by varying amounts as precautionary measures. Shipment business is at a standstill for the majority of articles. Holders of spot supplies have been in no haste to sell, but consumers have been able to negotiate for their immediate requirements from their usual suppliers without great difficulty. There has been a run on Brazilian MENTHOL with business done at prices up to 80s. per lb., duty paid, with 75s., c.i.f., asked for a parcel afloat; cables from origin indicate 90s., c.i.f. CASCARA SAGRADA, mature (1946) peel, has been marked up from 180s. to 240s. per cwt., while 1947 peel has risen from 175s. to 230s. New peel is quoted at from 210s. to 215s. per cwt., duty paid. A parcel of Nicaraguan IPECACUANHA now afloat has changed hands at 26s. 6d., c.i.f., and is now quoted at 30s. per lb., landed terms. There is little ipecacuanha on the spot but a parcel of poor-testing (1.85 per cent. total alkaloids) Matto Grosso root, which it is understood

is not suitable for emetine manufacture, is offering at 25s. per lb. Spot business has been done in SENEGA at 8s. 6d. per lb., but some holders are asking much higher prices. Prices of ESSENTIAL OILS from Metropolitan France and from Réunion, such as LAVENDER and GERANIUM, are expected to advance by fully 10 per cent. of their former values, but it is understood that fairly substantial supplies of these oils have been purchased in anticipation of a change in the exchange rate. Java CITRONELLA has been rather obscure; the Dutch florin has now come into line with sterling, but the Netherlands E.I. currency is so far unchanged.

U.S. Drug and Chemical Report New York, September 16

THE markets generally have been steady to firm during the past week. In the PHARMACEUTICAL and FINE CHEMICALS market, SILVER SALTS are well maintained at recently-established higher levels, and stronger markets are noted for CITRIC ACID and SANTONIN. More competitive conditions are developing for makers of RUTIN. What is described as "mixed isomeric menthol" is attracting considerable attention as a result of the firmness in natural menthol. This synthetic menthol, said to conform to British Pharmacopoeia standards but not to the U.S.P., is available at \$5.35 per lb. In CRUDE DRUGS, higher replacement costs from the Sudan for GUM ACACIA are resulting in higher spot prices. Amber sorts are quoted at 13½ cents to 14½ cents per lb., according to quantity. Higher replacement costs and depleted spot supplies, are also seeing an extension of the upward trend in BENZOIN. Small spot lots are being offered at 60 cents to 65 cents per lb. Ribbon TRAGACANTH is meeting with little demand, and in some quarters spot prices are subject to shading. More market interest, particularly for export, is being shown for SENEGA. The new crop is now completely gathered. As a consequence of the drought, a decidedly firmer tone has developed in the ESSENTIAL OILS market for most oils of Spanish origin. The PENNYROYAL crop is reported to be a complete failure. It is said that no oil will be available for shipment from the 1949 crop. Included among other Spanish oils displaying a stronger tone are THYME, ROSEMARY, SPIKE LAVENDER, ORIGANUM, CADE, RUE and MARJORAM. Shipping prices of most French oils are moving steadily upwards. Some sources here believe Britain may be buying more heavily in anticipation of a revaluation of the pound sterling. Affected oils include VETIVER, GERANIUM, YLANG YLANG, and NEROLI.

Pharmaceutical Chemicals

ACETONE.—Prices are unchanged. Makers' contract rates per ton are as follows:—In 40/50 gall. drums: Less than 1 ton, £70; 1 ton, £69; 10 tons to 50 tons, £68; 50 tons and over, £67. Smaller quantities are quoted at £90 per ton in 5-gall. drums and £85 per ton in 10-gall.

p-AMINO BENZOIC ACID.—Makers' prices are from 35s. to 38s. 6d. per lb. The SODIUM SALT is 37s. 6d. to 41s. per lb.

AMMONIUM CHLORIDE, B.P.—Steady. Makers quote 1-cwt. lots at 9½d. per lb.

AMPHETAMINE.—Quotations for BASE and SULPHATE are from 115s. to 120s. per lb. *d*-AMPHETAMINE is 26s. per oz.

ATROPINE.—Steady. Makers' rates per oz. are: ALKALOID, 41s. 3d.; 4 oz., 40s. 9d.; 25 oz., 40s. 3d. SULPHATE, 32s. 9d.; 4 oz., 32s. 3d.; 25 oz., 31s. 9d.

BARBITONE.—Lower prices are announced by makers. New rates per lb. are as follows:—1 cwt., 35s.; 28 lb., 36s.; 7 lb., 37s.; 1 lb., 38s. The SODIUM SALT is now 1s. per lb. more than the base.

BETANAPHTHOL.—Makers quote prices from 2s. 9½d. to 3s. 1½d. for B.P. quality packed in 28-lb. packages.

BISMUTH SALTS.—Makers' prices per lb. (containers in brackets) are as follows:—CARBONATE.—1-cwt. lots, 14s. 5d. (1-lb.); 14s. 4d. (2-lb.); 14s. 3½d. (4-lb.); 14s. 2½d. (7-lb.); 14s. 2d. (14-lb.); 14s. 1d. (28-lb.). CITRATE is 2s. 3d. per lb. less; SALICYLATE, 2s.; and SUBNITRATE, 2s. 1d. less than carbonate. SUBGALLATE is 1s. per lb. more than carbonate.

CALCIFEROL.—1 kilo is quoted at 7s. 6d. per gm.; 500 gm., 7s. 7d. per gm.; 100 gm., 7s. 8d.; less than 100 gm., 7s. 9d. Supplied in ampoules of capacity 5 gm. or more.

CHLORAL HYDRATE.—Current rates per lb. for the home trade are: 1-cwt. lots, 4s.; 56-lb., 4s. 2d.; 28-lb., 4s. 4d.

CHLOROXYLENOL.—B.P. quality is quoted at 5s. 6d. per lb. in 1-cwt. drums.

CINCHOPHEN.—Steady. Prices are from 25s. to 30s. per lb., according to quantity.

COCAINE.—Rates per oz. are: ALKALOID, CITRATE and SALICYLATE, bottles, ½-oz., 65s. 6d.; ¼-oz., 62.; 1-oz. 60s. 6d.; 2-oz. 59s.; 4-oz., 58s.; 8-oz. 57s. 3d.; 16-oz., 54s. 4d. Tins 25-oz., 53s. per oz. HYDROCHLORIDE, NITRATE and SULPHATE, bottles, ½-oz., 58s. 3d.; ¼-oz., 55s. 3d.; 1-oz., 53s.; 2-oz., 52s. 6d.; 4-oz., 51s.; 8-oz., 50s. 6d.; 16-oz., 47s. 3d. Tins, 25-oz., 46s. per oz. Packages free, net monthly account, carriage paid.

CODEINE.—Makers' rates per oz. are as follows:—ALKALOID, ½-oz., 60s. 3d.; 1-oz., 57s. 9d.; 2-oz., 56s. 3d.; 3-oz., 55s. 6d.; 4-oz., 55s. 3d.; HYDROCHLORIDE, ½-oz., 53s.; 1-oz., 50s. 6d.; 2-oz., 49s.; 3-oz., 48s. 3d.; 4-oz., 48s.; PHOSPHATE, ½-oz., 46s. 9d.;

1-oz., 44s. 3d.; 2-oz., 42s. 9d.; 3-oz., 42s.; 4-oz., 41s. 9d. Prices of HYDROBROMIDE and IODIDE as alkaloid; and SULPHATE as hydrochloride.

CREAM OF TARTAR.—Makers' rates for the home trade are: 10 cwt. lots, 148s. per cwt.; 5-10 cwt., 149s.; less than 5 cwt. and more than 2 cwt., 150s.; 1-2 cwt., 152s., delivered.

CYCLOBARBITONE.—Makers' prices for small quantities are from 79s. 5d. to 83s. 11d. per lb. The CALCIUM derivative is available at the same prices at the base.

DIAMORPHINE.—Makers' rates per oz. are as follows:—ALKALOID, ½-oz., 63s. 6d.; 1-oz., 61s.; 2-oz., 59s. 6d.; 3-oz., 58s. 9d.; 4-oz., 58s. 6d.; HYDROCHLORIDE, ½-oz., 58s. 3d.; 1-oz., 55s. 9d.; 2-oz., 54s. 3d.; 3-oz., 53s. 6d.; 4-oz., 53s. 3d.

EPHEDRINE.—Makers' rates per oz. are as follows:—ALKALOID: 1 oz., 11s. 9d.; 16 oz., 11s. 6d.; 25 oz., 11s. 3d.; 50 oz., 11s.; 100 oz., 10s. 9d. HYDROCHLORIDE and SULPHATE: 1 oz., 8s. 3d.; 16 oz., 8s.; 25 oz., 7s. 9d.; 50 oz., 7s. 6d.; 100 oz., 7s. 3d. Assorted contracts may be booked for quantities of not less than 100 oz. over six months. Containers: 50 oz. or more, free; 50-oz. lots carriage paid.

ETHYLMORPHINE.—Makers' rates per oz. are as follows:—ALKALOID, ½-oz., 66s. 6d.; 1-oz., 64s.; 2 oz., 62s. 6d.; 3-oz., 61s. 9d.; 4-oz., 61s. 6d. HYDROCHLORIDE, ½-oz., 57s.; 1-oz., 54s. 6d.; 2-oz., 53s.; 3-oz., 52s. 3d.; 4-oz., 52s.

PHENACETIN.—Prices quoted continue to range from 5s. to 6s. per lb., according to quantity. Supplies continue restricted.

PHENAZONE.—Quotations for British-made and imported material range from 22s. 6d. to 25s. per lb.

PHENOBARBITONE.—Steady. Current quotations for 28-lb lots are at 36s. per lb., and for 1-cwt., 35s. The SODIUM derivative is available at the same prices. A good demand is reported.

PYROGALLIC ACID.—Quoted unchanged. CRYSTALS are: 1 cwt., 18s. 6d. per lb.; 56 lb., 19s.; 28 lb., 20s. RESUBLIMED is 22s. 3d. per lb. in 1-cwt. lots; 56-lb., 22s. 9d.; other quantities in proportion.

QUININE.—Steady. Makers' rates (per oz.) to home-trade distributors are given below: additional charges must be added for repacking, etc. ALKALOID, from 5s. to 5s. 6d.; ACETYSALICYLATE, 6s. 3d. to 6s. 9d.; BISULPHATE, 3s. 7d. to 4s. 1d.; DIHYDROBROMIDE and DIHYDROCHLORIDE, 4s. 11d. to 5s. 5d.; FORMATE, 5s. 9d. to 6s. 3d.; GLYCEROPHOSPHATE and PHOSPHATE, 5s. 5d. to 5s. 11d.; HYDROBROMIDE and HYDROCHLORIDE, 4s. 6d. to 5s.; SALICYLATE, 4s. 8d. to 5s. 2d.; SULPHATE, 4s. to 4s. 6d.; QUININE AND UREA HYDROCHLORIDE is quoted from 4s. 10d. to 5s. 4d.

THYMOL.—B.P.—Makers' prices are from 17s. 6d. to 18s. 6d. per lb., as to quantity.

Crude Drugs

ACONITE.—Indian, on the spot, quoted at 275s. per cwt.; *napellus*, 3s. 10½d. to 4s. 3d., duty paid, nominal.

AGAR.—Kobé strip from 13s. 6d. to 15s. per lb., according to quality. South African powder, in tins in cases, 18s. 3d. per lb., spot. No licences to import being issued.

ALOES.—Prime Cape quoted at from 112s. 6d. to 115s. per cwt., spot; shipment, 102s., c.i.f. Curaçao is nominal at 175s. per cwt., spot, and Socotrine at 170s.

ANTIMONY.—Metal prices are: 99.6 per cent. regulus, £170 per ton, delivered; 99 per cent., £160; 70 per cent., crude, £130.

ARECA NUTS.—Quiet. Spot quotations are about 56s. 6d. to 57s. 6d. per cwt.

ASAFETIDA.—Quiet. Persian block on spot is offering at prices from £14 10s. to £24 per cwt., as to grade.

BALSAMS.—Canada on spot, maintained at 15s. 6d. per lb. Parà *Copaiba*, B.P. 5s. 9d. per lb., spot. San Salvador *Pernu*, sellers at 4s. 6d. per lb., duty paid. *Tolu* is quoted dearer, as a result of the devaluation, at 11s. 6d. per lb., spot.

BELLADONNA.—Jugo-Slav root, 4s. to 4s. 4d. per lb., duty paid, nominal; Jugo-Slav leaves (B.P.), 4s. 7d., duty paid. English leaves at about 5s. per lb., as to test.

BENZOIN.—Sumatra good almondy block, spot, from £18 10s. per cwt.; shipment, £17 5s., nominal, c.i.f.

BUCHU.—New-crop short rounds, spot, 3s. 7d. to 3s. 9d. per lb., as to quality; forward, 3s. 5d. per lb., c.i.f.

CALABAR BEANS.—Unchanged on quotation. Spot quotations are from 10½d. to 11d. per lb.

CAMPHOR.—A steady market. Chinese tablets from 7s. 6d. (½-oz.); no offers of ¼-oz.; refined natural powder (B.P.), 6s.; slabs (2½-lb.), 7s. 3d. per lb., spot London, duty paid. English sublimed flowers (B.P.) are priced as follows: One cwt., 5s. 9½.; 28 lb., 6s. 3d.; 7 lb., 7s.; smaller quantities, up to 8s. per lb. English synthetic is 5s. per lb. in 1-cwt. lots.

CANTHARIDES.—Quiet. Chinese on spot is available from about 7s. per lb.

CAPSICUMS.—African on spot is now quoted at 107s. 6d. to 150s. per cwt., as to quality.

CASCARA SAGRADA.—Quotations for mature bark have risen to the 230s. to 240s. per cwt., duty paid, level. Prices of 1949 peel are around 210s. to 215s. per cwt., duty paid.

CASCARILLA.—Quills are quoted at 1s. 5d. and siftings at 1s. 3d. per lb., spot.

CASSIA PODS (*C. fistula*).—East Indian is quoted at from 62s. 6d. to 65s. per cwt., ex wharf London.

CHERRY BARK.—Thin natural is nominally at 1s. 4½d. per lb., duty paid, ex store.

CLOVES.—Zanzibar is offered at from 1s. 3d. per lb., spot; September-October shipment, 1s. 2d., c.i.f.

COCOA BUTTER.—Maximum controlled price is 4s. 4½d. per lb., delivered.

COD-LIVER OIL.—In returnable drums, medicinal oil (B.P.) is from 11s. to 12s. per gall., according to quantity; veterinary grade is 1s. per gall. less than B.P.

COLCHICUM.—Corms on spot quoted at 5s. to 6s. per lb., as to test; seeds, 13s. per lb., spot, duty paid.

IPECACUANHA.—No offers of Brazilian root from source. A parcel afloat of Nicaraguan is offering at 30s. per lb., landed.

MALE FERN.—Jugo-Slav root quoted at 66s. per cwt., duty paid; in bond, 61s.

MENTHOL.—Firm. Brazilian is quoted on the spot at 80s. per lb., duty paid; in bond, 77s. 6d. September-October shipment 77s. 6d., c.i.f. quoted.

RHUBARB.—Prices in China are expected to rise. Rough round, two-thirds pinky fracture, is offering on the spot at 6s. 6d., duty paid; shipment, 6s. 6d., c.i.f., nominal.

SARSAPARILLA.—Jamaica native red, on the spot, is offered at 2s. to 2s. 2d. per lb.; Jamaican grey, 3s. 6d., spot.

SEEDS.—ANISE.—Market remains unchanged. Cyprus, 150s. per cwt., duty free; Turkish, 140s. per cwt., in bond, both spot London.

CARAWAY.—Dutch in poor demand at 97s. 6d. per cwt., duty paid, spot London.

CELLERY.—Indian is steady at 1s. 2d. per lb., spot London. More inquiry for French at 1s. 3d. per lb., duty paid (now landing).

CORIANDER.—Spot market remains firm. Morocco on spot in London, nominally 67s. 6d. per cwt., duty paid; shipment 55s. per cwt., c.i.f., now quoted.

Argentine, whole seed, has advanced to 47s. 6d. per cwt., duty paid; split seed is now offered at 45s. per cwt., duty paid in London, and 42s. 6d. per cwt., duty paid, ex store Hull.

CUMIN.—Market continues firm. Cyprus is 157s. 6d. per cwt., c.i.f. London—all stocks practically cleared on spot.

Morocco, spot Liverpool, is 135s. per cwt., in bond, and 145s. per cwt., duty paid; for shipment, 112s. 6d., c.i.f. London, quoted.

Indian, spot Liverpool, quoted at 150s. per cwt.

DILL.—Indian, on spot, can be bought at 55s. per cwt.; for shipment, 57s. 6d. per cwt., c.i.f.

FENNEL.—Indian, on spot, is 67s. 6d. to 70s. per cwt., according to quality; for shipment, 67s. 6d. per cwt., c.i.f.

FENUGREEK.—Indian is firm, 57s. 6d. per cwt., quoted on spot; for shipment, 61s. per cwt., c.i.f. is quoted.

Morocco, spot, is 55s. per cwt., duty paid

SENEGA.—Business has been done at 8s. 6d. per lb., spot, but there are indications of much higher prices.

VALERIAN.—Belgian natural is quoted at 185s. per cwt., spot; cut and cleaned, 192s. 6d., duty paid.

Essential and Expressed Oils

ALMOND.—English-expressed sweet oil (B.P.) is offered at from 4s. 6d. to 5s. 6d. per lb.; Spanish is available at from 3s. 6d. to 4s. 6d. Bitter, on the spot, is quoted at from 27s. 6d. to 60s. per lb., as to grade.

ANISE.—Firm. Spot quotations for Chinese star are maintained at 7s. 9d. for drums and 8s. per lb. for oil in tins in cases.

BAY.—Steady. West Indian on spot is quoted at from 6s. to 7s. 6d. per lb.

CADE.—Steady. Spanish oil, B.P., on the spot, is offered at from 3s. to 3s. 3d. per lb. upwards.

CAJUPUT.—From 17s. to 19s. per lb. is quoted for spot stocks of B.P. grade.

CALAMUS.—Offers of English-distilled are at 150s. per lb.

CAMPHOR.—White oil on spot is quoted at from 2s. 3d. per lb., duty paid; brown oil, from 1s. 9d. per lb., spot, duty paid.

CARAWAY.—English-distilled is offered at from 37s. to 40s.; imported, 27s. 6d. to 30s. per lb., as to quantity.

CASSIA.—Quiet. Quotations are from 16s. 3d. to 16s. 6d. per lb., spot. There are no offers from origin.

EUCALYPTUS.—Spot quotations for 70-75 per cent. (B.P.) are from 3s. 4½d. to 3s. 9d. per lb. for drums, as to seller.

FENNEL.—Quiet. Sweet oil quoted from 18s. per lb., spot.

GERANIUM.—Bourbon on spot is nominally priced at from 62s. to 65s. per lb.

GINGER.—Quotations are from 80s. to 185s. per lb., as to grade and seller.

GUAIACWOOD.—Dealers quote prices from 16s. to 18s. per lb.

JUNIPER BERRY.—Czechoslovak is nominal at from 17s. 6d. to 20s. per lb., spot; English, 70s. to 100s. as to grade and seller.

LAVANDIN.—Dealers are asking from 7s. to 8s. per lb., as to quantity.

LAVENDER.—French, 38-40 per cent., on spot is nominal at from 16s. 6d. per lb. upwards; 40-42 per cent., 18s. Spanish spike is offered at from 7s. 9d. to 8s.

LIME.—Steady. West Indian on spot is offered at from 38s. 6d. per lb.

NUTMEG.—Prices of English-distilled oil are at 35s. to 37s. 6d. per lb.; second-grade, 25s. per lb.

OLIVE.—Importers' Association's rate is 26s. 2d. per gall. of 9 lb., ex store, drums included. Additional charges are added for small quantities, according to costs of breaking bulk, containers, delivery, etc.

ORANGE.—West African sweet on the spot is from 7s. 3d. per lb., duty paid, shipment, 5s. 6d., c.i.f. Italian sweet is quoted at from 18s., duty paid; Italian bitter, from 14s., duty paid.

ORIGANUM.—Quotations are from 17s. 9d. to 18s. 6d. per lb., on the spot.

PALMAROSA.—Small supplies held at about 35s. per lb.; shipment offers at 32s., c.i.f.

PATCHOULI.—Firm. Singapore is difficult to find on the spot and is valued at 55s. per lb.

PENNYROYAL.—Spanish oil (B.P.) on the spot is at from 15s. 6d. to 17s. per lb.

PEPPERMINT.—English-distilled "Mitcham" oil is offered at 200s. per lb.

PIMENTO BERRY.—English-distilled oil, from 57s. 6d. to 65s. per lb. and upwards as to quantity.

PINE.—*Pumilionis*, about 16s. to 17s. per lb., spot; *sylvestris*, from 8s. 6d. to 10s.

ROSEMARY.—Spanish on spot is offered at 6s. to 7s. 6d. per lb., as to quantity.

SANDALWOOD.—Mysore oil on spot, from 66s. to 73s. per lb.; English-distilled is about 75s. per lb.; West Indian, from 16s. per lb., on the spot.

SASSAFRAS.—Brazil on spot is quoted at from 4s. 6d. to 5s. 3d. per lb., nominal.

Synthetics and Isolates

Quotations are per lb. and vary according to grade, quantity and seller.

ACETOPHENONE.—Easier, from 6s. to 10s. **AMYL ACETATE.**—2s. 6d. **AMYL BENZOATE.**—5s. 3d. to 6s. **AMYL BUTYRATE.**—5s. 3d. to 6s. 6d. **AMYL PHENYL ACETATE.**—9s. 6d. to 12s. **AMYL SALICYLATE.**—3s. 3d. to 4s. 6d. **AMYL CINNAMIC ALDEHYDE.**—15s. to 17s. 6d. **ANETHOLE.**—Dearer, from 12s. 6d. to 16s. **ANISIC ALCOHOL.**—65s. to 67s. 6d. **ANISIC ALDEHYDE.**—Ex paracresol, 19s. to 22s. 6d.; perfumery grade, 22s. 6d. to 25s.

BENZALDEHYDE.—3s. 6d. to 4s. 6d. **BENZOPHENONE.**—10s. 6d. to 12s. 6d. **BENZYL ALCOHOL.**—Perfumers' 3s. to 4s. **BENZYL ACETATE.**—3s. to 4s. **BENZYL BENZOATE.**—Perfumers', 4s. 9d. to 6s. **BENZYL CINNAMATE.**—From 12s. 6d. **BENZYL ISOEUGENOL.**—32s. 6d. to 35s. **BENZYL PROPIONATE.**—5s. to 6s. 6d. **BENZYL SALICYLATE.**—6s. 6d. to 7s. 6d. **BENZYL SUCCINATE.**—13s. to 14s. **BENZYLIDENE ACETONE.**—15s. to 17s. **BORNEOL.**—9s. to 11s. **BORNYL ACETATE.**—Slightly easier, 5s. to 7s. **BROMSTYROL.**—32s. 6d. to 34s. **BUTYRIC ACID.**—5s. to 6s.

CINNAMIC ALCOHOL.—16s. 6d. to 18s. 6d. **CINNAMIC ALDEHYDE.**—6s. 6d. to 7s. 6d. **CINNAMYL ACETATE.**—22s. 6d. to 25s. **CINNAMYL BUTYRATE.**—27s. 6d. to 30s. **CITRAL.**—15s. to 27s. 6d. **CITRONELLAL.**—27s. 6d. to 30s. **CITRONELLOL.**—Higher prices, ex Ceylon, 28s. to 30s.; ex Java, 30s. to 35s. **COUMARIN.**—Slightly easier, 17s. to 19s.

DIMETHYL PHTHALATE.—2s. to 2s. 6d. **DIMETHYL BENZYL CARBINOL.**—50s. **DIMETHYL HYDROQUINONE.**—37s. 6d. to 40s. **DIPHENYL METHANE.**—6s. 6d. to 7s. **DIPHENYL OXIDE.**—5s. 6d.

ETHYL BENZOATE.—4s. 9d. to 6s. **ETHYL BUTYRATE.**—5s. 3d. to 7s. **ETHYL CINNAMATE.**—12s. 6d. to 13s. **ETHYL CENANTHATE.**—18s. 6d. to 20s. **ETHYL SALICYLATE.**—3s. 9d. to 5s. **ETHYL VANILIN.**—55s. **EUGENOL.**—14s. to 16s.

TRADE MARKS

(From the "Trade Marks Journal,"
August 31).

For antiseptics, disinfectants, surgical dressings, etc. (5).—"ANITA"; by M. Merica & Co., Ltd., Oldham; 677,185.

For all goods (5).—"NEO-SELAROM"; by Bayer Products, Ltd., London, W.C.2; 677,382. Two figures in circle device; by London Solvents, Ltd., London, E.10; 677,694. "NEUTRADONNA"; by British Schering, Ltd., London, W.1; 681,247.

For face masks for medical and surgical purposes (10).—"CARUS PRODUCT" and device of cross and wreath; by Alexander Carus & Sons, Ltd., Darwen; 670,589.

For surgical instruments (10).—"SURGILL"; by George Gill & Sons (Surgical), Ltd., London, N.W.1; 677,622.

For non-medicated toilet paper (16).—"TEXTITONE"; by John Rostron & Sons, Ltd., Manchester; 677,776.

For scent sprays (21).—"ROXY"; by F. Oxley & Co. (Exporters), Ltd., London, W.2; 676,706.

(From the "Trade Marks Journal,"
September 7).

For non-medicated toilet preparations (3).—"LUCIA"; by Lucia Products, Manchester; 666,044. "ZIBELINE"; by Parfums Weil Paris, Paris; 672,097. "GAY HEART"; by Leicesters (Burslem), Ltd., Burslem; 674,675. "CLAUDE DUVAL" and man and woman in period costume; by George Grimshaw Hammond, Reading; 676,842.

For hand cleaning preparations (3).—"PLASTOSOP"; by Stephen Paul Rety, Richmond; 672,164.

For all goods (3).—"SEZU"; by Astley Dye & Chemical Co., Ltd., Bolton; 675,011.

For ink removing chemicals (3).—"WETHCO"; by Weatherhead Manufacturing Co. (England), Ltd., London, S.W.1; 676,938.

For all goods excluding blue for laundry use (3).—Device of chessman; by Koray, Ltd., Bridgend; 675,543.

For industrial chemicals (1).—"WOLBRO"; by Wolstenholme Bronze Powders, Ltd., Bolton; 675,666. "PARABATE"; by Lenk's Chemical Products, Ltd., Pontypridd; 676,446. "BONBESTOS"; by Franes & Franes, Ltd., London, W.2; 676,881. "BY-PROX" and "BYPROX"; by Anglo-Iranian Oil Co., Ltd., London, E.C.2; 677,628 and 677,631.

COMING EVENTS

Monday, September 26

ABERDARE AND MERTHYR BRANCH, PHARMACEUTICAL SOCIETY, Ferrari's Cafe, Aberdare, at 7.30 p.m. Business Meeting.

DARTFORD BRANCH, PHARMACEUTICAL SOCIETY, Wellcome Club, High Street, Dartford, at 8 p.m. Address by Mr. H. W. Tomsli, B.Com., M.P.S., on "Man-power in Pharmacy."

WEMBLEY CHEMISTS' ASSOCIATION, Wembley Town Hall, at 8 p.m. Dr. Harold Davis, (Chief Pharmacist, Ministry of Health) on "The Pharmaceutical Service in the National Health Service."

Tuesday, September 27

COLLEGE OF PHARMACY GAELIC (Pharmaceutical Society of Ireland) ATHLETIC CLUB, 67 Lower Mount Street, Dublin, at 8.30 p.m. Annual meeting.

ABERDEEN BRANCH, PHARMACEUTICAL SOCIETY, Caledonian Hotel, Aberdeen, at 7.45 p.m. Address by Mr. H. N. Linstead, O.B.E., Ph.C., M.P., "Developments in the National Health Service."

Wednesday, September 28

EDINBURGH CHEMISTS' GOLF CLUB, Fixture at Duddington for Pinkerton, Gibson trophy and Cuxson Gerrard prize.

CROYDON ASSOCIATION and BRANCH, Cafe Royal, North end, Croydon, at 7 p.m. Annual supper and light entertainment. Tickets 12s. 6d. each.

NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, 17 Bloomsbury Square, London, W.C.1, at 7.30 p.m. Dr. J. M. Rowson on "The Pharmacist and the Quality of Crude Drugs."

GLASGOW AND SOUTH-WESTERN SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, Hall of the Institute of Accountants and Actuaries, 220 St. Vincent Street, Glasgow, at 7.30 p.m. Mr. H. N. Linstead, O.B.E., Ph.C., M.P., on "The Relations of the Pharmacist to the State under the National Health Service."

Thursday, September 29

DUNDEE BRANCH, PHARMACEUTICAL SOCIETY, Mathers Hotel, Whitehall Crescent, Dundee. At 7 p.m., dinner, followed at 8 p.m. by meeting, Speaker, Mr. H. N. Linstead, O.B.E., Ph.C., M.P. Members wishing to attend dinner should notify the secretaries by September 27.

SOMERSET BRANCHES, PHARMACEUTICAL SOCIETY and NATIONAL PHARMACEUTICAL UNION, Castle Hotel, Taunton, 3.30 p.m. Address to Society's Branch, by Mr. F. W. Adams, Ph.C., B.Sc., A.R.I.C. At 6 p.m., meeting of N.P.U. Branch.

HARROW BRANCH OF THE PHARMACEUTICAL SOCIETY, Oak Hall, Baptist Church, College Road, Harrow, at 7.30 p.m. Lecture "Colour Photography" by Mr. R. C. Davey.

BRIGHTON BRANCH, PHARMACEUTICAL SOCIETY, Union Church Institute Hall, Queen Square, Brighton, at 8 p.m. Members' night. Reports on Branch Representatives' Blackpool meeting. Refreshments from 7.30 p.m.

INSTITUTE OF OPTICAL SCIENCE, Royal Society of Arts, John Adam Street, London, W.C.2, at 7.30 p.m. Professor H. Hartridge, M.D., D.Sc., F.R.S. on "The Chromatic Aberration of the Human Eye and its Physiological Correction."

Friday, September 30

EDINBURGH BRANCH, PHARMACEUTICAL SOCIETY, 36 York Place, Edinburgh, at 7.30 p.m. Mr. H. N. Linstead, O.B.E., Ph.C., M.P., on "Some Implications of the National Health Service."



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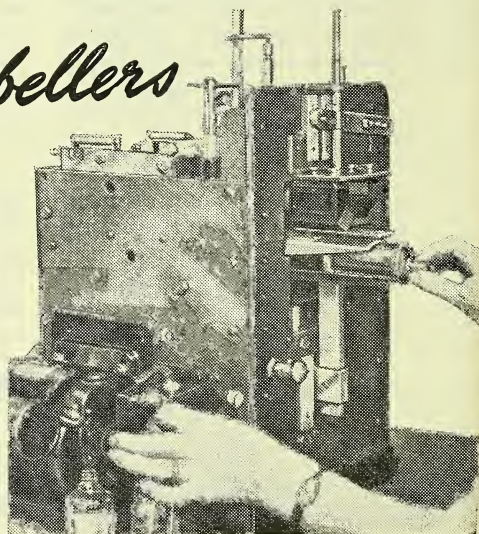
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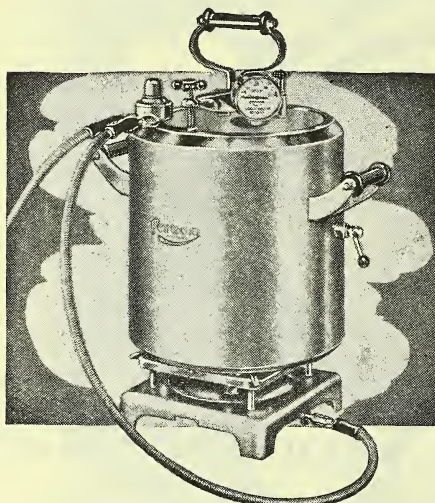
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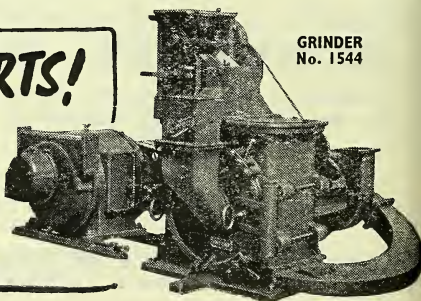
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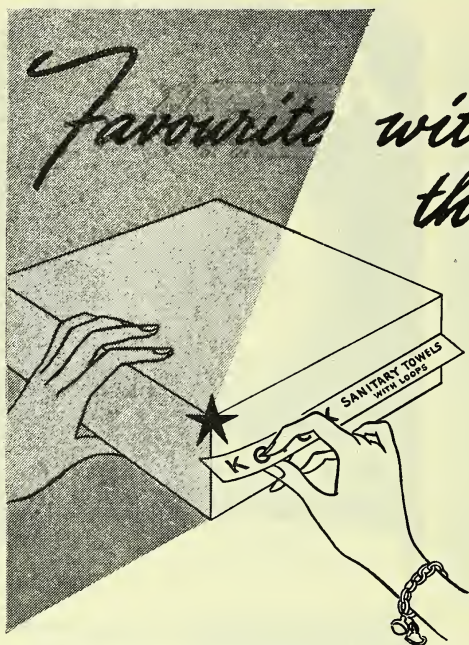
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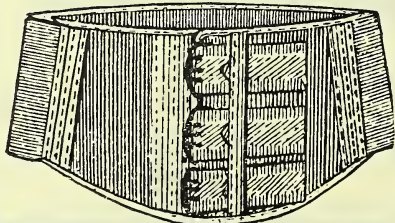
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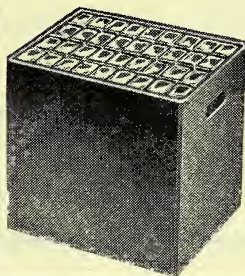


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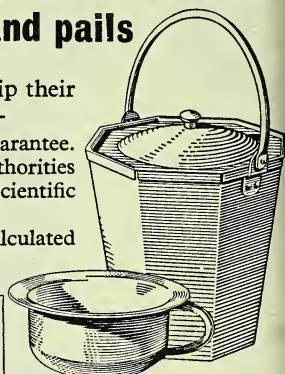
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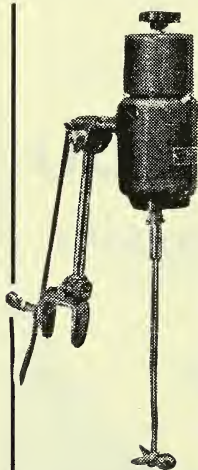
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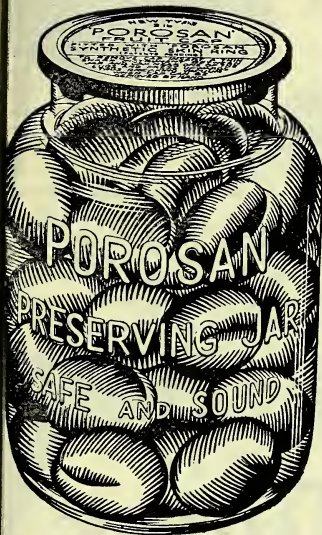
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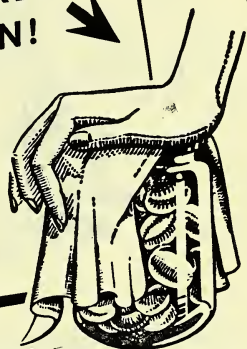
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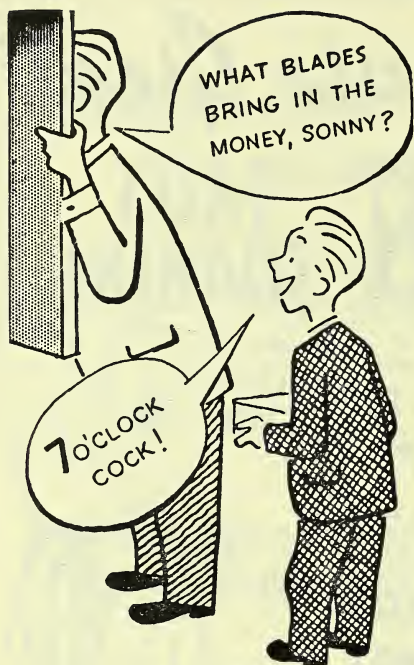
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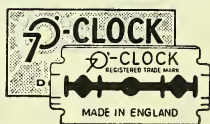
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BLADES



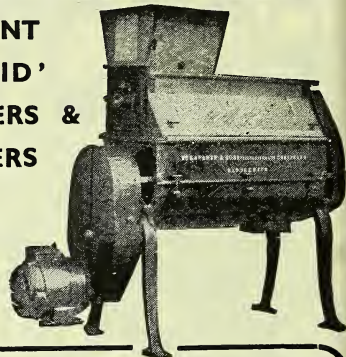
1/6d.
FOR TEN
9d. for 5
(incl. tax.)

Also 12 for 1/10d. or 6 for 11d. (incl. tax.)

Trade enquiries to your wholesaler or to Gillette Industries Ltd., Gillette Corner, Great West Road, Isleworth, Middlesex

ACCURACY IS ESSENTIAL
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WITH
GARDNER'S
PATENT
'RAPID'
SIFTERS &
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THE WORLD'S
LARGEST-SELLING
HOME DYE

CHEMISTS AGENTS:—
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SCRAM

THE CLEAN METHOD



NEW
1 DOZEN
DISPLAY
BOX

8/9

THE BEST REMEDY
AGAINST MICE

OVER 1,000,000
PACKETS SOLD A YEAR

NATIONALLY
ADVERTISED

Also in 3 doz. Display Box 25/6

Display the

PACKS THAT SELL, SELL, SELL!

Order from your wholesaler or direct

SCRAM PRODUCTS LTD.

Dartmouth Park Hill, London, N.W.5

*Announcing a New Book***PHARMACEUTICAL
EMULSIONS****AND EMULSIFYING AGENTS**

by L. M. SPALTON, B.Pharm., M.P.S.

In recent years there has been a bewildering increase in the number of emulsifying agents available for use in pharmacy. In this book they are classified with practical hints about their pharmaceutical use. Names of manufacturers of proprietary products are given—an index that alone makes this book indispensable to-day.

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TAX PAID STOCKS**CULMAK Shaving Brushes** 25/- doz.**BEST NYLON TOOTH BRUSHES** 4/6 doz.*Samples sent on approval**Wholesale Enquiries Welcomed*

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*Supplies can be obtained through all Wholesale Houses***HARVEY & CO. (DUBLIN) LTD., DUBLIN****Now available SACKERS HYGIENIC
METAL COMBS**

*Will remove Nits, Vermin
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INDIA'S (also Pakistan & Ceylon) retail & wholesale drug trade; importers and forgn. mfrs'. agents; Indian mfrs. are blanket covered by country's best drug trade journal: **CHEMIST and DRUG STORE NEWS.**

Copy, details free.

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2

WELL KNOWN - and liked!

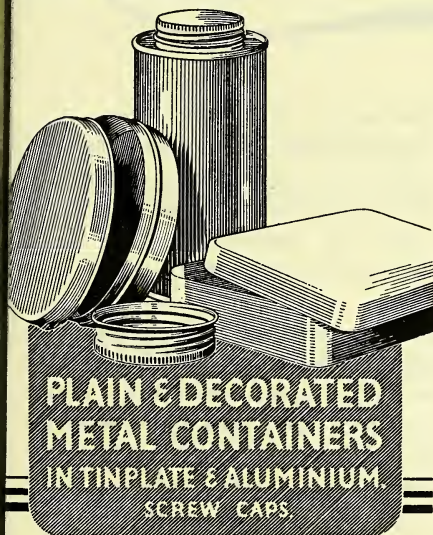
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To maintain quality, supplies were restricted during the war, today Drummer Pine rapidly regains its leading position in consequence of the goodwill of the trade and public. People have confidence in the powerful disinfectant germicidal properties of DRUMMER PINE and they love the fragrance that spells clean."



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SCREW CAPS.**

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CRASH!

share the success
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FLY SPRAY



**NATIONALLY
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A WINNING NAME

IMMEDIATE ACTION

Crash Fly Spray is in demand! Its proven deadly effect on flies and insects, has created an enormous public demand! This year it is advertised for the first time in leading national dailies and the Radio Times. Make sure you are carrying stock to meet the demand.

Also CRASH POWDER, packed in sprinkle topped drums. For home and pet use; a persistent and certain killer of Ants, Cockroaches, Clothes Moths, etc.,

9d. or 2/- sizes

Write for details of very attractive terms

ORDER TODAY

**BELL &
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SILVERDALE
WORKS
LIVERPOOL 13**



**Good profits begin with the new
Gillette Dispenser and one-piece razor**



Most people who enter your shop have enjoyed the Gillette advertising. A little prompting will bring Gillette off the tip of their tongue and *you* make a sale. Remind them while they're still in *your* shop. Display Gillette. Tell them about the speed and convenience of the one-piece Razor and Dispenser. Show them how simply the Dispenser delivers an unwrapped Blue Gillette Blade—ready for shaving. Make sure it's *you* that makes the sales.

Trade enquiries to your usual wholesaler.

Good mornings begin with Gillette

Gillette Industries Limited, Great West Road, Isleworth, Middlesex

YOU'RE TOO BUSY

to read our advertisements, and

WE'RE TOO BUSY

to write 'em

So you go on selling Gordon-Moore's Cosmetic
Toothpaste, and we'll go on feeding it out to you. Yes!

GORDON-MOORE'S COSMETIC TOOTHPASTE

The finest toothpaste in the world—

It “**rose-tints**” the **gums** to match lipstick

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Telephone : Shepherd's Bush 1131-1132

Telegrams : Dazzling, London

**THE
STERGENE
BOOKLET
IS A
PRACTICAL
SALES AID**



"How to make the most of your Stergene" shows the whole family how Stergene should be used for dozens of different purposes—from washing silks and woollies or baby's nappies to father's car or golf ball. It is a useful little booklet that will be kept and referred to. We cannot print as many as we should like, but if you stock Stergene you will get your share.

*High Quality. Counter and Window DISPLAY MATERIAL available:
send to Advertising Dept., Domestos Limited for Supplies.*



Stergene
SCIENCE IN CLEANSING

DOMESTOS LTD.

College Works, Newcastle upon Tyne 6

FROM *Nogent*, FRANCE!

4½" SURGICAL TOE-NAIL NIPPERS
ALL CHROMED STEEL

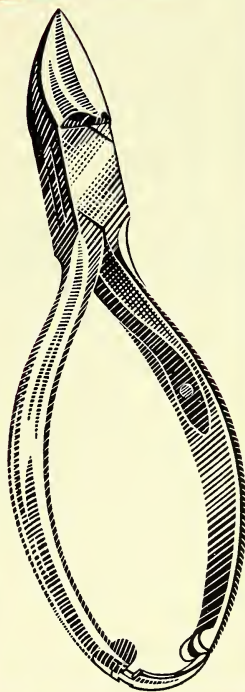
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NOGENT STANDARDS

RETAILS

12/0

FREE OF PURCHASE TAX



ASK YOUR WHOLESALER

FOR NIPPER

No. A F B 10

Also available from Nogent,
France in all types and sizes :

NAIL and CUTICLE NIPPERS

NAIL and CUTICLE SCISSORS

TWEEZERS and NAIL FILES

ALFRED FRANKS & BARTLETT CO. LTD.

AUDREY HOUSE, ELY PLACE, LONDON E.C.1.

TELEPHONE HOLBORN 1078/9 (P x)

They're working for you too!



Now meet Irene and Rita Day, the latest Toni twins who have been selected by the B.B.C. for the television series "Your Wardrobe".

They are going to help boost your sales of Toni, the only home perm used by 25 million American women. They will carry the Toni success story into countless homes throughout the country. A comprehensive schedule of Toni advertisements in newspapers and magazines will see to that!



STOCK TONI—FEATURE

Toni

HOME PERMANENT

—used by 25 million American women

A PRODUCT OF THE TONI DIVISION OF GILLETTE, ISLEWORTH, MIDDLESEX

Which Twin has the Toni—
and which has the expensive perm?
(See answer below)



The wave that gives that *natural look!*

Yes, a Toni perm is truly lovely! So soft and natural-looking — so easy to do at home. Toni waves any kind of hair that will take a perm — even grey or dyed hair. And Toni's gentle action is so kind to the hair that

It is ideal for children, too. Already millions of women throughout the world know that a Toni looks as lovely and lasts as long as the most expensive perm! Which Twin has the Toni? Irene and Rita Day are identical English twins. Irene, on the right, gave herself a lovely Toni at home. She says: "We keep all our friends guessing. They can't tell my Toni from Rita's expensive salon perm!"



Give
yourself
lovely

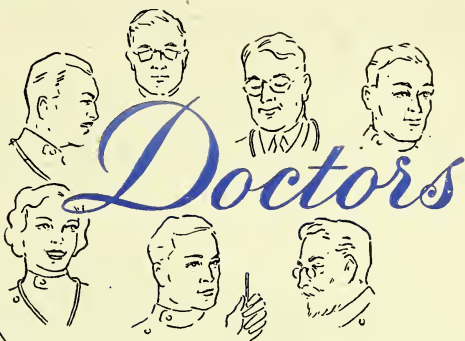
Toni

SET WITH 12/6 TONIS 8/4
CARBLES 12/6 KIT
(Prices incl. tax)
used by 25 million
American women
A PRODUCT OF THE TONI DIVISION OF GILLETTE, ISLEWORTH, MIDDLESEX

WHICH TWIN HAS THE TONI?

A familiar question, but one that few can answer for themselves. The Day twins, for example, look and dress alike, and have identical hair styles. But there is one important difference. Rita had an expensive salon perm and Irene, on the right, gave herself a lovely Toni perm at home—for a fraction of the cost!

GET YOUR SHARE of Toni profits this easy way—tie-in your window and counter space with Toni Twin display material.



are increasing the
demand
for
★ **Ortho-Gynol**

by FEATURING
Ortho-Gynol
you are taking
a realistic step
towards sales
development in
YOUR
PHARMACY

*Consistently promoted to the medical
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★ *Available through your usual wholesaler.*



Ortho Pharmaceutical Ltd.

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Makers of Gynaecic Pharmaceuticals

SUPER SPRING LID
METAL SPECTACLE CASES

CARRIAGE PAID

PROMPT DELIVERY



Size 21 Hockey End in an
attractive range of colours,
only best quality "Rexine"
and Nylon untarnishable
Lining used.

Best Value Obtainable

Price 12/- per dozen nett
Plus 66 $\frac{2}{3}$ % Purchase Tax

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(PROPRIETOR: SIR JOHN PRATT, J.P.)

Manufacturing Opticians

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"ZEMS" HERBAL LICORICE TABLETS



THE BEST MEDICATED TABLETS FOR
COUGHS, COLDS, ASTHMA, BRONCHITIS, ETC.

Supplies may be obtained



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ZEMS LTD

718-724 Seven Sisters Road, London, N.15

Telephone: STAMFORD HILL 6658-9

1ST
END PERM

1ST
comb-a-curl

1ST

and yet another
handbox
winner is on the way

See our representative who has all the information or write or 'phone direct to :
Ashe Laboratories Ltd., 120-2 Victoria St., London, S.W.1 'Phone: VICTORIA 6781



**"Good morning Sir...
I'm all set
ready to go!"**

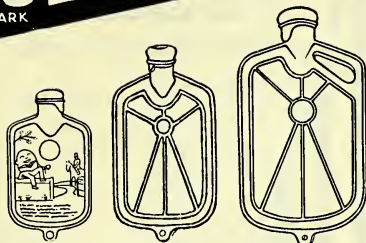
"I can help your autumn and winter sales figures to SOAR—a telephone call or a letter will bring me to your immediate assistance"—This unique range of hot water bottle toys is available now for delivery at once! And what an attractive sales-compelling line they are, not only because of their novelty nursery shapes but, like all Suba-Seal hot water bottles, because they have the patent Suba-Seal SAFETY STOPPER which cannot be detached and makes leakage impossible. Supplies will not last very long, make sure of your order NOW!



THE SUBA-GIANT
Designed for the sick bed, extra large with carrying handle



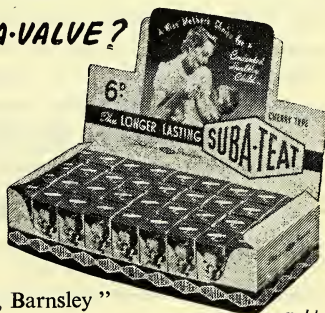
THE COMPLETE NOVELTY NURSERY RANGE designed for the children, 6 shapes in a variety of attractive pastel colours



THE SUBA-COT Suba-Seal in miniature—pastel colours, embossed with nursery rhymes
THE SUBA-STANDARD Normal shape, normal size

Have you seen the NEW SUBA-TEAT & SUBA-VALVE?

Here's another fast moving, profitable line, each valve and teat packed individually in an attractive container—dozen lots in smart display outers for counter or shelf. Full details will be sent promptly on request from:



Wm. FREEMAN & CO. LTD.

SUBASEAL WORKS, BARNSELY

Telephone: Barnsley 4081

Telegrams: "Subaseal, Barnsley"

n.d.h.



*The name
that means
everything to
a Woman*

VELENA

Soluble Sanitary Towels

In packets of Six 10½d. and
packets of Twelve 1/9d.
Veleno, Alpertons Mills,
Alpertons, Middx.

One of the new VELENA advertisements now appearing in the daily press and selected women's magazines . . . an estimated total readership of over 12 million women. This, and the high quality of VELENA, is your assurance of steady and increasing demand.

Trade enquiries to **VELENA**
Alpertons Mills, Woodside End, Mount Pleasant
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A Selection from the

Jaynox

Range of Chemists' Sundries

Jaynox Enemas

Complete with fittings
Velvet finish 49/- doz.

Jaynox Whirling Sprays

1st Quality 92/- doz.
2nd „ 84/- doz.

Jaynox Watch Spring Pessaries

all sizes—each in carton 33/- doz.

JOHN KNOX (STOKE-ON-TRENT) LTD

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Fenton,
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PATA

John Knox,
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26/38, Dean St.,
Birmingham, 5.

JOHN KNOX · JOHN KNOX · JOHN KNOX
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Steadily drifting South...

Askit

THE POWDER WITH A REPUTATION

**For over 30 years
Scotland's leading
Proprietary Medicine**

for the speedy relief of
Headaches, Neuralgia, Neuritis
and all Nerve Pains.

Manufactured by
ASKIT LTD MANUFACTURING CHEMISTS
GLASGOW N

and stocked by
ALL LEADING WHOLESALE HOUSES

TABLETS, PILLS, CAPSULES

LOZENGES, PASTILLES

British Chemotheutic Products Ltd. offer a complete range of Tablets, Pills and Capsules for dispensing under the National Health Acts. Each product is carefully standardised both qualitatively and quantitatively and strict analytical control is observed. The highest attainable standard of quality and purity is constantly observed.

Acetomenaphthone	Nicotinic Acid
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Barbitone	Phenytoin Soluble
Butobarbitone	Quinine Salts
Calciferol	Quinidine
Carbromal	Santonin
Codeine Co	Stilboestrol
Cyclobarbitone	Succinylsulphathiazol
Dienoestrol	Sulphacetamide
Digitalis	Sulphadiazine
Diphenan	Sulphaguanadine
Ephedrine	Sulphanilamide
Ergometrin Maleate	Sulphapyridine
Ethisterone	Sulphathiazole
Hexobarbitone	Sulphamezarine
Hexoestrol	Sulphadimidine
Mepacrine	Thiouracil
Methyl Thiouracil	Thyroid
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BRITISH CHEMOTHEUTIC PRODUCTS LTD
BRADFORD (P.O. BOX 191)

Your enquiries invited for all types of Tablets, Pills and Capsules.

BROVON

Asthma

INHALANT

Brovon Inhalant combines the rapid action of adrenaline with the slower but more persistent action of atropine methylnitrate and papaverine. An excellent example of synergism, it has proved to be an ideal combination for the relief of asthma and the bronchiolar spasm often present in chronic bronchitis and emphysema.

Already well recognised for the relief of asthma, Brovon Inhalant is being widely advertised to the medical profession. It is a reputable preparation for which pharmacists may expect an ever-increasing demand.

Supplied in bottles of $\frac{1}{2}$ oz. 7/6; 1 oz. 13/6; 2 oz. 26/3; 4oz. 51/- Exempt from purchase tax

BEST RESULTS ARE USUALLY OBTAINED BY INHALATION FROM A DEEDON INHALER



MOORE MEDICINAL PRODUCTS LTD
ABERDEEN LONDON OFFICE: 64 GLOUCESTER PLACE, W.I. **LONDON**
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Chemists everywhere are discovering the double benefit of recommending **AURORAL DYES** . . . quick, profitable turnover and satisfied customers who buy again.

Less 5%
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in 7 days

AURORAL
Cold Water Dyes
48/- gross. Retail 6d. per pkt.
WINNER
Home and Stocking Dyes
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MANUFACTURED AND PREPACKED
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(ORDER—REVOKED)

WE OFFER PRE PACKERS & EXPORTERS

MALT, MILK

AND

COCOA BEVERAGE

(Sweetened)

ALSO

MALT EXTRACTS

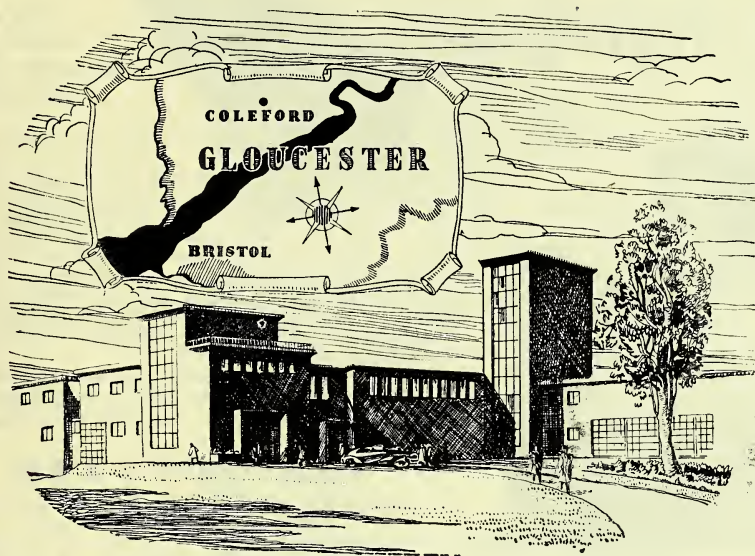
suitable for blending with Vitamins, Liver etc.

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LABORATORIES: Pharmaceutical, Dietetic,
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NOW WE'VE MOVED— EVERYTHING'S MOVING

The Carter 'Factory in a Forest' is settling down to steadily improving production. New ideas—new processes—are going into operation so that Ribena, always high in quality, will be better than ever in every way. Some of the improvements in bottling and colouring are already getting around. Ribena does everybody good—including the Chemist who sells it!

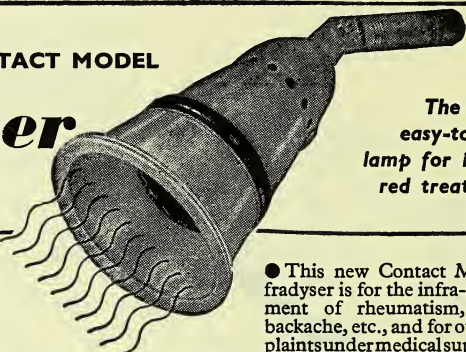


Ribena

BLACKCURRANT SYRUP

H. W. CARTER & CO. LTD., THE ROYAL FOREST FACTORY, COLEFORD, GLOS.

INTRODUCING THE CONTACT MODEL

Infradyser*The safe,
easy-to-use,
lamp for infra-
red treatment*

● This new Contact Model Infradyser is for the infra-red treatment of rheumatism, sprains, backache, etc., and for other complaints under medical supervision.

This lamp is safe and economical. Consumption is 25 watts, and it can be plugged straight into any convenient electric point. The heat never exceeds a comfortable maximum. It is uniform, and there is no risk of burning. The hyperaemia induced may last up to 4/5 hours.

This is a new and interesting line for chemists, and is reasonably priced at £2.18.9d. (inc. 11/9d. Purchase Tax). Literature and display material available. State voltage when ordering.

AEROSOLS LTD

65, OLD BROMPTON ROAD, LONDON, S.W.7

Telephone: KENSington 7495

'Semplolia'**D. D. T.****HAIR EMULSION**

*...a new
effective treatment
for head lice...*

A new formula Hair Emulsion, containing D.D.T. as the active ingredient, for the control of head lice. Pleasantly perfumed and simple to use.

Apply by massaging into the scalp. No combing is required except for the removal of dead lice. Treatment is economical—individual application four

drachms only.

List price 8/- (plus tax).
Retail price 1/3 (incl. tax).

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'Semplolia'**MEDICATED (LETHANE)
HAIR OIL N.F.**

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MANUFACTURERS OF
VITAMIN D3

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LABORATORIES · GREENFORD · MIDOX



**What you
can do!**

The distribution of welfare foods is driving home to *your* customers, and to the rising generation, the food value of Cod Liver Oil, and the old prejudice is dying rapidly. Thus a new and ever-widening market is building up. Therefore, Seven Seas advertising, in press, poster and cinema is being increased to help you. The opportunity is there — to-day! A really striking display at "the point of sale" will turn interest into cash. Write to-day for special window display material.

SEVEN SEAS

PURE COD LIVER OIL

British Cod Liver Oils (Hull & Grimsby) Ltd., St. Andrew's Dock, Hull



For
**CHEMISTS
ONLY**

A NEW
PROFITABLE
QUICK-SELLING LINE

HOSTESS
FRUIT SQUASHES
Making a host of friends

**RESTRICTED
EXCLUSIVELY
TO CHEMISTS**

GOOD PROFITS
RETAIL PRICE - per bot. 2/6
YOUR RETURN 33/- doz.
YOUR BUYING PRICE 24/9
YOUR PROFIT - 8/3
(equals 33½ on cost)

ATTRACTIVE VALUE
And a quality you can confidently recommend. The smart pack makes a most attractive display. Popular flavours. Orange, Lemon and Orange, Pineapple Applm (a Lime flavoured apple juice cordial).

**ORDER THROUGH YOUR
USUAL WHOLESALE CHEMIST**

Citrus Products Co. Ltd. 87 Regent St. London, W.



**Eade's
PILLS**

Eade's Rheumatic and Gout Pills, the remedy with a 100 year old fame.

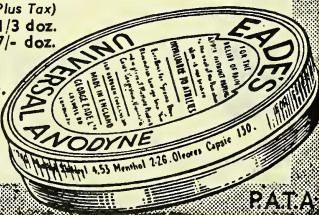
RETAIL (Inc. Pur. Tax)	WHOLESALE (Plus Tax)
1/7	11/3 doz.
3/9	27/- doz.
6/3	46/- doz.

**Eade's
UNIVERSAL
ANODYNE**

Another Eade's product always in demand.

RETAIL (Inc. Pur. Tax)	WHOLESALE (Plus Tax)
1/7	11/3 doz.
3/9	27/- doz.

EADE'S PILLS LTD.
(Dept. C. & D),
232 Goswell Rd.,
LONDON, E.C.1.
Clerkenwell 3370



PATA

"OATREX"

*Prepared from the
finest Scottish Oats*

FINE GROUND. For weaned infants, nursing mothers and invalids.

MEDIUM GROUND. Makes a grand breakfast food for young and old alike.



Enquiries to Kings of Kingsbury (Sales), Ltd.
1, London Bridge, S.E.1. Telephone: HOP 2004

KING'S PATENT PRE-COOKED OATMEAL

The Dentifrice the Dentists are recommending

Every day more and more Dentists are recommending their patients to use Ammi-dent, the toothpowder that really helps to prevent decay.

Ammi-dent is the only dentifrice manufactured in England by special arrangement with the Eastern Graduate Research Foundation of N.Y.

It will pay you to display it.

DISTRIBUTORS :

Fassett and Johnson, Ltd., 86 Clerkenwell Road, London, E.C.1

Ammi-dent

The Ammonium Ion Tooth Powder

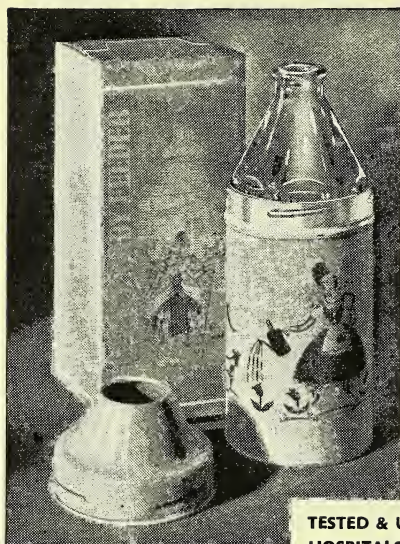
MADE AND GUARANTEED BY THE

WERNET DENTAL MANUFACTURING CO.

(Branch of Stafford Miller, Ltd.)

WELWYN GARDEN CITY, HERTS.





Morley Rogers (Feedrite) Ltd.
300 Kingston Rd. London S.W.20

TESTED & USED BY
HOSPITALS &
CLINICS

SIMPLE NEW INVENTION • A BLESSING TO MOTHERS

The **FEEDRITE**

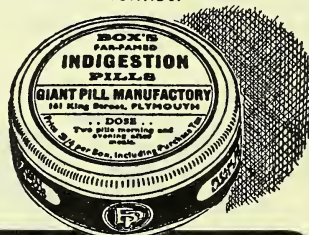
Baby Feeder sells on sight because of its common sense appeal to mothers. Tested and used by Hospitals and Clinics.

READ THESE FACTS

1. Average time taken over bottle feed—25 minutes.
2. Without the Feedrite container the milk is put into Baby's Bottle at 112° and after 10 minutes the temperature drops to 96° which is too cold for Baby, and mother has to re-heat the milk.
3. With the specially lined Feedrite container milk is put into the Feeding Bottle at 112° and does not lose more than 1° of heat in 30 minutes.
4. Eliminates the necessity to re-heat milk half-way through feed.
5. Makes ideal present.
6. Prevents gripe and wind caused by Baby drinking cool milk.
7. Prevents bottle breakage.
8. Colour scheme pink with nursery rhyme design in blue.
9. Attractive showcards available on request.
10. Trade terms 39/- per dozen, packed in one dozen boxes. Quantity terms on request.
11. Price to public 4/6 complete with feeding bottle (excluding teat).

N A T I O N A L L Y A D V E R T I S E D

Long established, well known, always a steady seller and still gaining favour, BOX'S PILLS are a sure and continuous source of profit to the chemist.



Box's Pills
FOR INDIGESTION

P.A.T.A. 1/5, 3/4, 5/5
RETAIL 13/4, 24/2
PRICES INCLUDING P.T.A.

W. H. BOX, 161 King St. Plymouth

PHERIBAN TONIC TABLETS

now packed in

2/- sizes 4/3

P.A.T.A.



MACLENNAN BRAND PRODUCTS LTD.
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Phone: BALham 2447

"NIP" IN THE AIR?

NIPITS FOR YOU!

THE POPULAR MEDICATED PASTILLES

FOR VOICE, THROAT & CHEST



TEASDALE & CO. LTD., CARLISLE

PINEATE

PULLS

ON YOUR CHILDREN'S COUNTER

PINEATE
tackles a child's cough
— and —
Children love it!

One delicious spoonful of Pineate starts to act at once... Honey soothes rawness and irritation... Pine and Peppermint breathe soothing vapours through chest and lungs... Squill and Ipecac loosen phlegm while a gentle sedative calms 'tickle' and encourages a good night's sleep.

PINEATE Honey COUGH-SYRUP
Price 1/11 (including tax)



PINEATE'S quick soothing action and real honey flavour makes it an ideal cough remedy for children. Advertising through the coming winter will be aimed at the mothers of young families through the most popular women's magazines, and attractive display material will shortly be available.

- PINEATE RETAILS AT 1/11 INCLUDING TAX.
- TRADE TERMS 13/9 PER DOZ. + 4/7 PER DOZ. PURCHASE TAX.
- CO-OPERATION DISCOUNTS ARE AVAILABLE FOR PINEATE WHEN INCLUDED WITH OTHER I.C.C. PRODUCTS OF 12½% ON ORDERS OF £10 AND OVER
10% ON ORDERS OF £5 AND OVER.

PINEATE

Honey

COUGH-SYRUP



A product of the

INTERNATIONAL CHEMICAL COMPANY LTD., CHENIES ST., W.C.1

It's an **EDME** *product!*

BEVAREX

A nourishing and sustaining
MALT FOOD BEVERAGE
of OUTSTANDING merit

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available
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particulars
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Retails at 1/8 per 6 oz. tin
Wholesale 13/6 doz.

EDME LTD., IMPERIAL HOUSE, REGENT STREET, W.1

Telephone: REGent 5563-4

Grams: "EDME," Piccy, London

Works: MISTLEY, ESSEX



G R A F T O N films

An entirely new name in the sphere of quality films. A new base, a new emulsion. Panchromatic; anti-halation backed; 28 Sch. Please do not confuse our product with re-rolls or adaptations.

To provide proof of our claims we will supply sample dozen lots upon receipt of 26/6d. or with tax declaration, 15/6d.

This offer is open to recognised dealers and chemists only with a guarantee to refund cash if not satisfied.

SIX EXPOSURES

Price '20' sizes £9 6s. od. per gross plus tax £6 12s. od.

Price '127' sizes £7 16s. od. per gross plus tax £5 12s. od.

Terms:—Cash with order, pro forma invoice or C.O.D.

We regret to announce that we are unable, at the moment, to accept any new customers for our D. & P. service.

Enquiries to:

JONES & BAILEY LTD

66/72 BREWERY ROAD, LONDON, N.7

Telephone: NORTH 2533

Telegrams: Certico, Holway, London

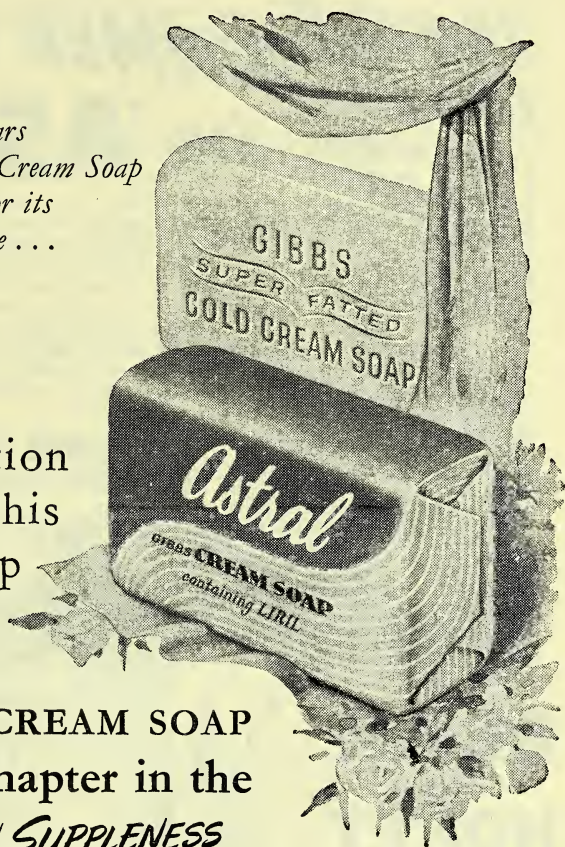
*For over 60 years
Gibbs Superfatted Cold Cream Soap
has been valued for its
skin beauty care . . .*

Now
with the addition
of LIRIL to this
beauty soap

Astral GIBBS CREAM SOAP
opens a new chapter in the
care of SKIN SUPPLENESS

- Only Astral contains Liril*
- Backed by striking national advertising
- Attractive profit margins
- Elegantly wrapped
- Supplies ready to meet your demand

* Liril is the proprietary name of a newly-perfected brand of ingredient blending 3 elements of special value to the skin.



**Tell your Gibbs Cold Cream Soap customers about
this new development in their favourite toilet soap!**

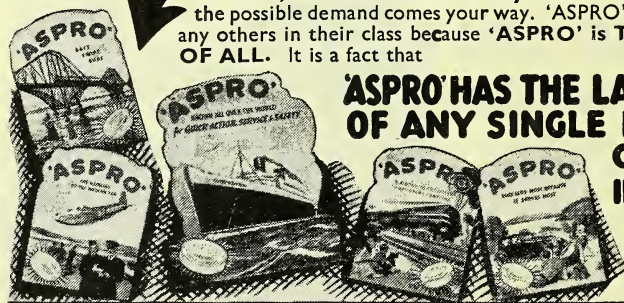
D. & W. GIBBS LIMITED

There's a GREAT SUMMER DEMAND for 'ASPRO'

(YOUR DISPLAY
WILL ATTRACT
THOUSANDS
of
'ASPRO' USERS)

When people know a product—have tried it and proved for themselves its use and value—they BUY it, again and again. Display completes the sale by reminding them just at the right time. For the story of a sale begins outside a shop, wherever advertisements are seen, wherever one member of the public recommends the product to another.

When you display 'ASPRO' you are displaying a product which is known, used and valued everywhere. As a result the whole of the possible demand comes your way. 'ASPRO' displays pull more than any others in their class because 'ASPRO' is THE BEST KNOWN OF ALL. It is a fact that



**'ASPRO' HAS THE LARGEST SALE
OF ANY SINGLE MEDICINE
OF ITS KIND
IN THE WORLD**

Made in England by
ASPRO LIMITED
TRADING ESTATE
Slough
Bucks **PATA**

BEAR BRAND HONEY



For
*Purity
and Quality*

As direct importers from all the main Honey-producing Countries of the World, we can supply Standard Grades of the finest Honey for all Manufacturing purposes.

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KOMPO FOR COLDS

Manufactured only by

J. F. WHITE & CO., LTD.

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SOFT & LIQUID SOAPS

For Manufacturing and other technical and general uses.

W. M. DELF (L'POOL) LTD
SOAP AND DISINFECTANT MANUFACTURERS
DELCO WORKS, LIVERPOOL, 9

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Get ready now **FOR THIS BIG WINTER BUSINESS**

**Why you will need to stock up with
'GENATOSAN' WINTERGREEN CREAM**



*'Genatosan' Wintergreen Cream is available with
or without Menthol*

1 The special 'Genatosan' base gives faster relief to rheumatism sufferers. It is so effective that it sells again and again.

2 'Genatosan' Wintergreen Cream is preferred because it is *non-greasy* and does not stain clothes or linen.

3 Compelling advertisements in newspapers and magazines spread the news about 'Genatosan' Wintergreen Cream all over the country.

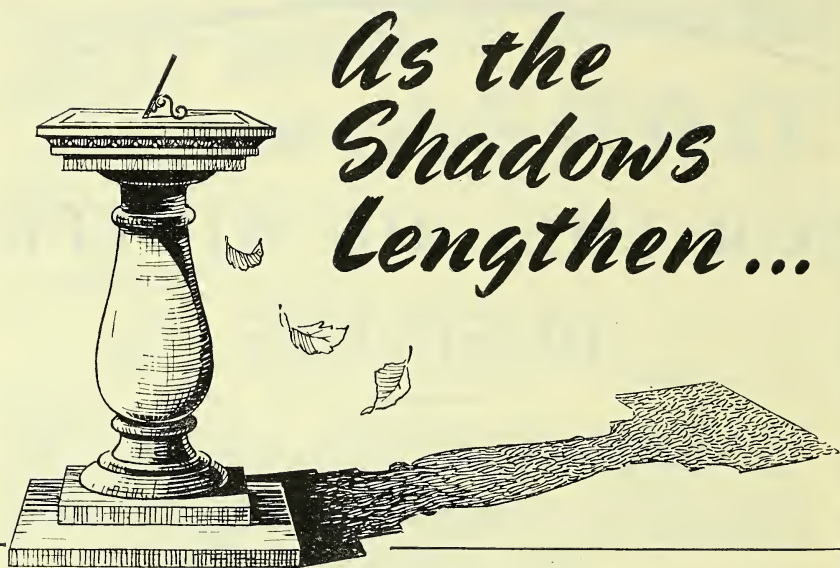
4 Eye-catching display material for your counter and windows helps sell this excellent product for you.

ORDER NOW



**BRITISH CHEMICALS AND BIOLOGICALS LTD.
LOUGHBOROUGH · LEICESTERSHIRE**

Telephone: Loughborough 2292



*As the
Shadows
Lengthen...*

. . . and the chilly days of Autumn approach, the common cold comes out to play with renewed vigour—thanks to Seroalcin its playtime of infection is only short lived. At this time many thousands are starting their prophylactic course. Meet the increased demand by ordering Seroalcin now. Packed in 20's and 60's.

FOR THE PREVENTION & TREATMENT OF COLDS

SEROCALCIN

Pharmacists are reminded that the sole selling agents for Seroalcin in the U.K. are J. C. Eno Ltd., Watford, Herts (Watford 7761), to whom all orders and enquiries should be sent.



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The Chemist & Druggist SUPPLEMENT

HEAD OFFICE: 28 ESSEX STREET, STRAND, LONDON, W.C.2

Telephone: Central 6565 (10 lines)

Telegrams: "Chemicus, Estrand, London"

Classified Advertisements must be prepaid.

For rates see sectional headings

ORRIDGE & CO. (Established 1846)

For SALES, PURCHASES, VALUATIONS, STOCKTAKING and ASSESSMENTS

1. South Africa. With the devaluation of the £ and the consequent increase in the value of gold the business opportunities available through our offices in the Union are worth while investigating. Small and large businesses for disposal. Financial assistance afforded in many instances. Enquiries invited.

2. South Africa. Cape Province. Genuine business for immediate disposal. Increasing turnover, present rate over £500 a month. Beautifully fitted pharmacy. Fixtures and fittings cost £1,000. Entire English community, with excellent educational facilities. Price required £1,500 s.v. Further details upon application.

3. Tasmania. General retail and dispensing business, Kodak agency. Turnover last year £3,650, net profit £1,100. Rent only 15/- per week including rates. Modern pharmacy. Total purchase price would be about £2,150.

4. Tasmania. Business for sale owing to ill-health. No opposition. Turnover this year £4,000. Rent 30/- per week, no rates. Near large city. Total purchase price about £1,350 for early sale.

5. Antrim. Recently established business. Turnover at present about £70 per week, net profit about £15 per week. Stock estimated at £1,800, fittings £400. Scope for optics and agricultural trade. Price £3,000 all in or valuation terms.

6. Surgical instrument business in Central London, also dealing in ligatures and dressings. Very old-established house. Turnover under management last year £17,000. Stock and plant valued at £5,250. Spacious factory with lease valued at £1,500. Share capital issued £6,446. Vendors finding themselves unable to give the business personal attention, will accept £1 per share, which represents no sum whatsoever for goodwill. This is an excellent opportunity.

7. Shropshire. Good-class country retail business with valuable agricultural trade for immediate sale. Splendid site. Net profits £3,000 p.a. Spacious premises. Five staff employed. Price required £6,000 plus stock at valuation. Property for sale or can be leased.

184 STRAND • LONDON • W.C.2

Telephone: TEMPLE BAR 9212/3—6340

Telegrams: Orridgchem Estrand, London

Branch Offices: 36 Cannon St., Birmingham, 2.

Phone: Midland 6547

77 High St., Shirley, Southampton.

Phone: Southampton 71708

BUSINESSES FOR DISPOSAL

words 8/6 (minimum) then 3d. per word. Box 2/-

EXCELLENT OPPORTUNITY occurs in small town. Long-established drug store and freed for sale. Commodious property in first-class street. Unopposed. Genuine reason for selling. Goodhold, goodwill, fixtures and fittings, £5,500, v. Box 6/759.

DRUG STORE for sale. Cheap for quick sale. 15 years' lease, North London. Factory area. Suitable for chemist. Cheap rent. Box 6/758.

CENTRAL DISTRICT. Well-established business in good working-class district. Turnover for 6 months ending June 1949—shop, £2,779; N.H.I., £2,077. Rent, including first-class fittings, fixtures and goodwill, £3,000, plus s.v. Write Box A/372.

APPOINTMENTS

2/6 per line (12 lines=1"). Box 2/-

HILL END HOSPITAL & CLINIC, ST. ALBANS, HERTS

DISPENSER (locum tenens), male or female, wanted immediately. Salary 7 guineas per week. Apply, stating full particulars of experience to Medical Superintendent, Hill End Hospital & Clinic, St. Albans, Herts.

ASSISTANT PHARMACIST

Applications are invited for the position of Assistant Pharmacist. Salary £370 to £450 per annum, according to experience, J.N.C. scale, or, Assistant Pharmacist for temporary duty possibly for a prolonged period, Salary £8 8s.-£10 10s. per week, or, Assistant with Apothecaries' Certificate for temporary duty. Salary, £7 7s. per week.

Applications to the Medical Superintendent, Queen Mary's Hospital for Children, Carshalton.

NATIONAL HEALTH SERVICE ACT 1946 SHREWSBURY GROUP 15 HOSPITAL MANAGEMENT COMMITTEE

Two Assistant Pharmacists are required for duties in the area of Shrewsbury Group 15 Hospital Management Committee.

Salary in accordance with the Joint Negotiating Council Scale.

Applications, stating age, qualifications (with dates), nationality, with copies of recent testimonials, should be sent to the undersigned.

J. P. MALLETT,
Secretary.

Royal Salop Infirmary,
Shrewsbury.

September 3, 1949.

The Bridge
Walsall, nr. Birmingham
 Phone: Walsall 5v48
28 Rigby Buildings, 4 Aytoun St.
Manchester 1
 Phone: Central 0877
141 Bath St., Glasgow
 Phone: Douglas 3168

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Chemists' Transfer Agents, Stocktakers
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South Coast Representative:

G. Loxton Grinstead, M.P.S.

"Edweina," Oaklands Avenue

Saltdean, nr. Brighton, Sussex

Phone: Rottingdean 8233

BUSINESSES FOR DISPOSAL

A.1. Notts. Family business offering good scope for further development; turnover for 1947/48 £3,465; the price asked for the business is £2,000 which includes stock estimated at £950 (to be taken at valuation); the property, upon which a substantial mortgage could no doubt be arranged, is also for sale at a price of £750; the flat above the shop is at present sub-let.

A.2. Glamorganshire. Pharmacy with freehold property occupying main road corner site; living accommodation available; turnover small but capable of increase; price of business £1,900 including stock approximately £650 and fixtures approximately £400; freehold property £2,750.

A.3. East Sussex. Well-fitted pharmacy with good living accommodation; N.H.S. approximately 660 per month; freehold property for sale £5,000; net profit for last trading year £1,250; scope for introduction of optics; price of business £3,200 (including fixtures £1,000) plus stock at valuation.

A.4. Midlands. Drug Store in large industrial town; turnover for last financial year £3,709;

scope should exist for appreciable development under qualified proprietorship; immediate pharmacy opposition not heavy; price £2,000 for the goodwill and fixtures plus stock at valuation.

A.5. Brighton. Established business situated in busy shopping street; turnover for 1948/49 (17½ months) £9,312. Four-roomed flat with bathroom; rent £100 per annum. Scope should exist for further development; price by negotiation. Quick sale desired.

A.6. Kent (Seaside Resort). Drug store which should offer appreciable scope under qualified proprietorship; look-up shop, etc., situated near to sea front; total price £740, including stock estimated at £620.

A.7. West London. Old-established business occupying commanding trading site; turnover for 1948/49 £11,348; net profit (after paying salaries of £902) exceeded £2,000; living accommodation available for occupation; total purchase price approx. £6,900; excellent opportunity.

OFFICIAL VALUERS TO THE N.P.U. BUSINESS PURCHASE FUND

Appointments—Continued

WEST MIDDLESEX HOSPITAL, ISLEWORTH, MIDDLESEX

(South-West Middlesex Hospital Management Committee)

DEPUTY CHIEF PHARMACIST

Applications are invited for the above post. Candidates should preferably hold the qualification of Pharmaceutical Chemist. Salary, £425 x £20—£525, plus an additional increment of £15 to £540 if specially recommended. The appointment will be subject to medical examination and the provisions of the National Health Service (Superannuation) Regulations, 1947. Applications, stating age, qualifications, present employment and previous experience, together with testimonials and the names of three referees, should be made in the applicant's own handwriting to the Chief Pharmacist at the above hospital.

WEST MIDDLESEX HOSPITAL, ISLEWORTH, MIDDLESEX

(SOUTH-WEST MIDDLESEX HOSPITAL MANAGEMENT COMMITTEE)

Applications are invited for the post of ASSISTANT PHARMACIST. Salary in accordance with the J.N.C. scale, £370-£450 per annum. Commencing salary will depend on previous experience. Appointment to commence 1st October, 1949. Subject to the National Health Service Superannuation Scheme. Applications, stating age, qualifications and experience, with copies of testimonials, to be sent to the Chief Pharmacist at the above Hospital.

HILL END HOSPITAL, ST. ALBANS

20 Miles from London on Good Bus Routes
 ASSISTANT PHARMACIST or Dispensing Assistant required immediately. Salary and conditions of service in accordance with revised recommendations of the J.N.C. (Hospital Staffs). Arrangements might be made for the persons appointed to reside in the hospital, if desired.

Apply, stating age and full particulars of experience to Medical Superintendent.

NORTHERN GROUP HOSPITAL

MANAGEMENT COMMITTEE

ROYAL NORTHERN HOSPITAL

HOLLOWAY, LONDON, N.7.

A VACANCY WILL OCCUR on October 1st for A GRADUATE IN PHARMACY who wishes to complete his/her apprenticeship. Opportunity will be given for instruction in the work of the Pharmaceutical Department and for study of forensic pharmacy in preparation for the Pharmaceutical Chemist Diploma. Salary will be at the rate of £4 per week, subject to deductions for National Health Insurance and Superannuation.

Full particulars of experience, together with two references, should be addressed to the Secretary, as above.

CONNAUGHT HOSPITAL, WALTHAMSTOW, E.17

ASSISTANT TO PHARMACIST required immediately (Hall certificate). Hospital experience preferred. Salary in accordance with J.N.C. scale. Applications, stating age, experience, etc., together with copies of two recent testimonials, to the Secretary, Forest (No. 11) Group Hospital Management Committee, Langthorne Rd., Leytonstone, E.11.

BERDOE & FISH

Chemists' Transfer Agents and Valuers
 11 ARGYLE SQUARE, KING'S CROSS, W.C.1
 opposite St. Pancras and King's Cross Stations)

Wanted for private Client a good class business in London, N.W. or W. for preference. Turnover £5,000 upwards. L.A. immaterial. Cash available £8,000. Strict privacy assured. No sale, no charge.

● All Valuations and Stocktakings, carried out under personal supervision of principals
 Established 1870 Phone: TERminus 3574

Appointments—Continued

CENTRAL GROUP HOSPITAL MANAGEMENT COMMITTEE

METROPOLITAN HOSPITAL,
 Kingsland Road, London, E.8.

DISPENSING ASSISTANT required on a permanent non-resident basis for duties of a general nature.

Scales of remuneration subject to experience based on recommendations of J.N.C. which are at present under review.

Hours of duty are 9 to 5 week-days. Saturdays 9 to 12.

Applications, stating details of experience, and giving the names of two referees to:
 FRANK CHAMBERS,
 House Governor.

THE ROYAL LONDON HOMŒOPATHIC HOSPITAL,

GREAT ORMOND STREET, W.C.1.
 DISPENSER

Lady (unqualified) required with good experience. Salary in accordance with Joint Negotiating Committee scale. Apply, stating age and full particulars to Pharmacist.

MOUNT VERNON HOSPITAL AND THE RADIIUM INSTITUTE, NORTH- WOOD, MIDDLESEX

Applications are invited for the post of ASSISTANT PHARMACIST. Previous experience not essential. Salary in accordance with J.N.C. scale.

Applications with full particulars and copies of not more than three testimonials, to be forwarded as early as possible, to:

Secretary and House Governor.

THE UNITED LEEDS HOSPITALS

THE GENERAL INFIRMARY AT LEEDS

Applications are invited for the appointment of ASSISTANT PHARMACIST. Salary in accordance with scales being negotiated with the Ministry of Health with additional payment for stand-by duty. Appointment will be subject to the National Health Superannuation Scheme. Night and week-end duty will be worked in rotation (about once in every six or seven weeks, according to availability of staff). Previous hospital experience not essential.

Applications, stating age, sex and experience, together with the names or not more than three referees, must be sent to the undersigned as soon as possible.

S. CLAYTON FRYERS.

Secretary to the Board of Governors.

WINDSOR GROUP HOSPITAL MANAGEMENT COMMITTEE

CANADIAN RED CROSS MEMORIAL
 HOSPITAL,

TAPLOW, MAIDENHEAD, BERKS

Applications are invited for the post of SECOND ASSISTANT PHARMACIST at the above hospital. The hospital is in the process of development and as half the beds are devoted to a Research Unit for the study and treatment of Cardiac Rheumatism in children, this post is particularly suitable for a recently qualified Pharmacist seeking further experience. Salary and conditions of service on J.N.C. scale, i.e., £370 p.a., rising to a maximum of £450 p.a.

Applications, stating age, qualifications and experience, together with copies of two recent testimonials, to the Administrative Officer.

WOOLWICH GROUP HOSPITAL MANAGEMENT COMMITTEE

Applications are invited for the post of Assistant Pharmacist, either Senior or Junior (Resident or Non-resident) at St. Nicholas Hospital, Plumstead.

A sterilizing room is being provided.

Salary within the following scales according to experience:—

ASSISTANT, £370 to £450 p.a.

SENIOR ASSISTANT, £415 to £490.

Applications to be sent to Secretary, W.G.H.M.C., Memorial Hospital, Shooters Hill, S.E.18.

WEST HAM GROUP HOSPITAL MANAGEMENT COMMITTEE

FOREST GATE HOSPITAL, LONDON, E.7

Applications are invited for the appointment of ASSISTANT PHARMACIST at Forest Gate Hospital, London, E.7. Whole time. Hours of duty 39 per week. No Sunday duty. Salary in accordance with J.N.C. (Hospital Staffs), viz., £370, rising by four annual increments of £15, and one of £20 to a maximum of £450 per annum and is subject to any amendments of the Whitley Council award. Experience will be taken into account in determining the commencing salary within the authorised scale. Newly qualified pharmacists considered.

Housing accommodation cannot be provided.

Applications, stating age, qualifications, experience, and copies of three recent testimonials, should be sent to the Senior Administrative Officer, Forest Gate Hospital, London, E.7.

KINGSTON HOSPITAL, WOLVERTON AVENUE, KINGSTON-ON-THAMES

Applications are invited for the appointment of ASSISTANT PHARMACIST. Previous experience is not essential and the appointment offers an excellent opportunity for a newly qualified pharmacist desirous of obtaining hospital experience.

Salary at present in accordance with the recommendations of the J.N.C. (Hospital Staffs) but subject to retrospective revision to the terms of the award of the Industrial Court when final recommendations are issued by the Pharmaceutical Whitley Council.

Applications should be sent as soon as possible to the Medical Superintendent, together with copies of testimonials or the names of persons to whom reference may be made.

Appointments—Continued

ST. LUKE'S HOSPITAL, BRADFORD

ASSISTANT DISPENSER required. Salary in accordance with J.N.C. scale. Candidates should hold the Apothecaries' Hall Certificate. Applications, giving particulars of age, education, training and experience, should be forwarded to the undersigned.

H. TRUSSON, Secretary.
Bradford "A" Group H.M.C.

Vacancies advertised are restricted to persons or employments excepted from the provisions of the Control of Engagements Order, 1947.

SITUATIONS OPEN

36 words 8/6 (minimum) then 3d. per word. Box 2/-

RETAIL (HOME)

APPLICATIONS ARE INVITED for the position of unqualified dispenser for our Queen Sq. pharmacy, Morecambe. Modern premises; 44-hour week; holidays with pay; sickness pay; superannuation fund. Applications to be made in writing, and forwarded at once, stating age, experience, two names for reference, and addressed to the Managing Secretary, L. & D. Co-operative Society, Ltd., 51 Church St., Lancaster.

ASSISTANT, well experienced in dispensing, for Central London. Permanency. Living accommodation if required. Apply Box A/398.

ASSISTANT for counter and dispensing in high-class pharmacy (lady or gentleman). All usual particulars to Parry Jones & Co., 61 High St., Barnet.

BOOTS THE CHEMISTS have vacancies in a number of districts for qualified assistants, male and female. Salary (male) Central London £10 5s. to £11 5s. Metropolitan District £9 17s. 6d. to £10 17s. 6d. Provinces £9 10s. to £10 10s. (Female Central London £9 15s. to £10 15s. Metropolitan District £9 7s. 6d. to £10 7s. 6d. Provinces £9 to £10, according to age. Engagements are on a permanent basis with good prospects and eligibility for pension, life assurance, etc. There are also a number of vacancies for unqualified assistants with sound pharmaceutical experience. Good remuneration with a view to permanency. Pension scheme, etc. Applications should be made to Retail Staff Department, Station St., Nottingham, stating age, experience, and district preferred.

BRISTOL CO-OPERATIVE PHARMACIES, LTD., invite applications from qualified men for branch managerships available in October, due to expansion or later by arrangement. Living accommodation in some cases. Good basic salary with emoluments, including dispensing bonus. Permanencies. Superannuation scheme. Application forms obtainable from Registered Office, 1 Castle Green, Bristol, 1.

CHEMIST, qualified as branch manager. Housing accommodation available. Apply by letter to Staff Manager, Birkenhead and District Co-operative Society, Ltd., 14 Catherine St., Birkenhead.

COMPETENT UNQUALIFIED ASSISTANT. Congenial situation. State salary, experience, to Aves, 33 Bury New Rd., Prestwich, Lancs.

DISPENSING and counter assistant, good experience required. Central London. Apply Box A/375.

EDGWARE. Pharmacist required. Essentially dispensing (lady or gentleman). Full time, approximately 42 hours per week. Shift work two late nights per week; 3-10. One Sunday in four rota duty. Salary according to experience. Derek B. Clarke, 85 Station Rd., Edgware, Middlesex. Edgware 2061.

CROYDON. Unqualified junior assistant required, mainly for dispensing in busy pharmacy. Excellent working conditions. Apply with particulars of experience and salary required, to O. L. Carrington, 300 London Rd., Croydon.

DEREK CLARKE, Edgware. Experienced, unqualified assistant. Essentially dispensing (lady or gentleman). Full time, approximately 42 hours per week. Shift work two late nights per week, 3-10. One Sunday in four, rota duty. Salary according to experience. Derek B. Clarke, 85 Station Rd., Edgware, Middlesex. Edgware 2061.

EDINBURGH. Branch manager for dispensing and family business, in central district. State full particulars of age, etc. Box 6/740.

HAVANT. Unqualified assistant (lady or gentleman) required for dispensing and counter in good-class pharmacy. Permanency. Please apply, stating particulars of experience and salary required, etc., to L. Wadsworth, 38 West St., Havant, Hants.

HEPPELS require qualified manager for West End pharmacy. Permanent position offering scope for initiative. Good salary and commissions. Pensions scheme available. Apply with full details: Superintendent Chemist, Heppells (1932), Ltd., 70 Vauxhall Bridge Rd., S.W.1.

KENSINGTON. Unqualified assistant required for high-class dispensing business. Write or telephone to Gamble & Co., 347 High St., Kensington, W.8. Tel. Western 2730.

LONDON CO-OPERATIVE CHEMISTS, LTD., invite applications from experienced pharmacists for branch managerial vacancies in pleasant suburban areas. Modern, well-equipped shops with good supporting staffs, attractive salary, generous commission, with payment for all rota duties. Positions permanent and superannuated, with excellent promotion prospects. Choice of living accommodation, house or flat, where required. Full particulars as to experience, wages required, etc., to Superintendent Chemist, Grange Road, Leyton, E.10.

LEEK AND MOORLANDS Co-operative Society, Ltd., Pharmacy and Optical Department. Wanted, fully qualified pharmacist-optician as departmental manager and buyer. Modern shop. Good house available. N.U.C.O. scale. Annual sales £14,000. Superannuation transfer scheme. Apply in writing, giving full details to Managing Secretary, Leek & Moorlands Co-operative Society, Ltd., Russell St., Leek, Staffs.

LONDON. City pharmacy. Required, a young unqualified assistant, with sound pharmaceutical experience, good salesman, window dresser. No Sunday duty; early closing Saturday. Write, stating age, experience and salary required, to B. Hooper & Co., 6 Railway Pl., Fenchurch St., E.C.3.

MORLEY INDUSTRIAL Co-operative Society, Ltd. Pharmacist manager of branch required. Three assistants kept. Modern house available, newly decorated, in a good residential district, within easy reach of the shop. Apply with full particulars including salary desired and previous experience to the Secretary and General Manager, Morley Industrial Co-operative Society, Ltd., Albion Street, Morley, Leeds.

PHARMACIST required to take control of busy dispensary. Two late shifts per week. Living accommodation definitely found for suitable applicant after three months probation. Gentleman with family preferred. Good salary. Permanency. Derek Clarke, 85 Station Rd., Edgware, Middx.

PHILIP HARRIS, LTD., Edmund St., Birmingham, require the services of a qualified pharmacist in their dispensing department. The position is permanent and offers excellent opportunity for advancement. Close 12.30 Saturday. Apply in writing first instance, stating salary required.

Situations Open—Continued

QUALIFIED ASSISTANT, lady or gentleman, required for eventual management of a modern family business situated on the outskirts of a large town in Southern Midlands. Pleasant country district. Congenial position. Please state full particulars to Box 6/738.

QUALIFIED LADY required to manage small shop 10 miles from London. Write, stating salary. 43 Mans Lane, Mill Hill, N.W.7.

QUALIFIED CHEMIST-OPTICIAN required as manager of our pharmacy and optical dept. Annual combined sales £9,000. Good opportunity for progressive man. No half-day or Sunday duties. Superannuation scheme in operation. Accommodation available. Applications, stating age, experience and salary required, to General Manager, Co-operative Society, Ltd., Winner St., Paignton, Devon.

QUALIFIED MANAGER or qualified assistant wanted for branch in West Bromwich. Living accommodation rent free. Apply, Managing Director, Langley Stephens, Ltd., 169 West Wood Rd., Sutton Coldfield, Birmingham.

QUALIFIED MANAGER required for branch pharmacy. Salary, £10 per week, and commission on National Health dispensing (minimum £1). Superannuation scheme. Apply, stating age and experience, to Kidderminster Co-operative Chemists, Ltd., Worcester St., Kidderminster.

QUALIFIED PHARMACIST required as manager suburban business. State experience, salary required. R. A. Cheshire, Ltd., Charlton Pharmacy, Charlton Kings, Cheltenham.

SWINDON & DISTRICT Co-operative Chemists, Ltd., require qualified pharmacist, male or female, for well-equipped modern pharmacy. Status and salary as branch manager. Some relief duties. Superannuation with transfer clause. Living accommodation if necessary. Excellent opportunity and experience for right person. Apply, giving age, qualification and experience to the Secretary, 57 Fleet St., Swindon.

WANTED in Bristol, young pharmacist to take charge of small dispensing department in City Pharmacy. Half-day Saturday and all statutory holidays. Box 6/763.

WE HAVE SEVERAL interesting and well paid vacancies for unqualified staff in the London areas of Ilford, Greenford, Battersea and Edgware. Application in first instance to Superintendent Chemist, London Co-operative Chemists, Ltd., Orange Rd., Leyton, E.10.

WORCESTER. Qualified (married) assistant required. Duties mainly dispensing. Permanency. Please state when disengaged, salary required. Excellent house available. Rent and rates free. References, etc., to Fred Hill, St. John's Pharmacy, Worcester.

YOUNG LADY, experienced, Hall certificate, for Central London. Permanency. Apply Box A/399.

LOCUMS WANTED

QUALIFIED LOCUMS required from October 3rd to 4th inclusive. Adequate assistance. No Sunday or half-day duty. Please state terms. Huggins & Bee, Ltd., Wainfleet, Skegness, Lincs.

RETAIL (OVERSEAS)

CEYLON. Junior chemist, qualified, for large departmental store. Single. Initial engagement of 3 years. Passage paid out and home. 6 months' home leave with half pay and free passages on renewal of engagement. Generous terms including cost-of-living allowances, provident fund and other benefits. Write Box T.257, Willings, 362 Gray's Inn Rd., London, W.C.1.

WHOLESALE

A LEADING FIRM of pharmaceutical manufacturers require medical representatives for territories covering part of the Midlands and the South-East London area. Qualified pharmacists under 36 years of age preferred. Previous and/or hospital experience desirable. The positions are permanent and carry a basic salary plus commission and business expenses; there is a contributory staff pension fund. Applicants should give full details of previous experience. Write, Representative, Box A/383.

A PROGRESSIVE LONDON distributing house requires active representatives by men with first-class connections amongst wholesale grocers, Co-ops., wholesale and multiple chemists in all parts of England and Wales to market a toilet roll that will be retailing at 7d. to the public. Experienced men with first-class connections and capable of earning high commission apply to Managing Director, Box 6/745.

ALLIED LABORATORIES, LTD., require three medical/trade representatives to take complete charge of the areas (1) South Wales; (2) West Riding; (3) Derby/Notts. Men with first-class experience of calling upon the medical profession and retail/wholesale chemists are invited to apply for these permanent, well paid positions. A progressive salary is offered together with expenses and commission. Full details of experience, age and salary required to Allied Laboratories, 140 Park Lane, W.1.

ARE THERE ANY MEN with initiative, drive and ambition, who are desirous of obtaining a progressive position? If so, we should be pleased to receive their application to represent a very progressive house, manufacturing surgical instruments, on territories shortly becoming vacant, covering hospitals, institutions and wholesalers only. Good salary, expenses and commission. Car owner advantage. Permanency. Previous experience with hospital technique an advantage though not necessary. Box PP5267, W. H. Smith & Son, Ltd., Manchester, 3.

ASSISTANT REQUIRED to sales manager of small manufacturers/exporters. Professional background and experience in advertising ethical pharmaceutical, dental, or veterinary products essential. Box A/371.

BOURJOIS, LTD., invite applications from gentleman with experience in the perfumery trade and of age group 30-35 for consideration of appointment as representative for the Counties of Durham, Northumberland, Westmorland and Cumberland. Full particulars should be addressed to Sales Controller, Bourjois, Ltd., Queen's Way, Croydon, Surrey.

COMMISSION AGENTS with first-class connections among chemists and hairdressers required for several areas. Nationally advertised toilet lines. Apply, stating full experience and area covered, to Box 6/754.

COMMISSION SALESMEN, with first-class connections among retail chemists, required for several areas. Liberal terms to right men. Apply, stating full details of experience and area covered, to Nappiwhite, Ltd., 17 Conduit St., London, W.1.

DIRECTORSHIP. A young experienced sales manager is required by Midland firm to work as right-hand man to managing director who may require him eventually to take complete charge whilst abroad. Experience in perfumery preferred. As an act of good faith would be required to invest £1-2,000, which would be secured. Box A/393.

LADY with experience to look after sundry section of chemists' warehouse. Central London. Saturday 1 p.m. A/376.

Situations Open—Continued

ELI LILLY & CO., LTD. Medical representatives. Vacancies exist for medical representatives in the following areas: (a) West London. (b) Sheffield. (c) Eastern Counties, with headquarters in Norwich. (d) South-east Scotland, with headquarters in Edinburgh. Applications for these positions are invited from registered pharmacists under 35 years of age. Previous representative experience is not essential. Send full particulars to Eli Lilly & Co., Ltd., Basingstoke, Hants.

EUROPEAN FIELD REPRESENTATIVE. Applications for this post are invited by ethical pharmaceutical manufacturers. The minimum qualifications are: experience of European pharmaceutical markets, thoroughly conversant with medical product marketing and in dealing with doctors, hospitals and trade. Knowledge of either French or German essential. (Additional language advantageous.) The successful candidate will be required to tour European markets, supervise agents, etc. The salary offered will be in keeping with the importance of the post. Apply Box A/396.

EVANS, GADD & CO., LTD., Exeter, require a recently qualified pharmacist, male or female, as assistant in their analytical and manufacturing laboratories. Apply in the first instance to The Secretary, at 10 Smythen St., Exeter, stating full particulars of age, training and salary asked.

EVANS MEDICAL SUPPLIES, LTD., require representative for London district. Write, with full details of age, experience, etc., Manager, Evans Medical Supplies, Ltd., 50 Bartholomew Close, London, E.C.1.

EXPERIENCED MEDICAL MAN with extensive connections amongst hospitals, required to take charge of medical department of well-known London house in North-West London. Must have considerable knowledge of propaganda and sales to doctors, hospitals, etc., and be able to prepare brochures, circulars, Press advertisements, etc. Medical qualifications an advantage but not essential. Exceptional opportunity for the right man. Might suit ex medical representative. Remuneration by arrangement. Please write, giving full details of experience, age, etc., to Managing Director, Box A/397.

MALE LABORATORY ASSISTANTS required by old-established firm of chemical manufacturers, with view to training as shift chemists. Commencing salary not less than £250 p.a. plus additional pay when working shifts. Full particulars to Box 6/764.

MANCHESTER. First-class representative required by well-known toilet manufacturers for Manchester and district, age about 30. Own car and chemist connection essential. Salary, car allowance, expenses and commission. Reply with full details and copy of references to Sales Manager, "Bandbox," Ashe Laboratories, Ltd., 120 Victoria St., S.W.1.

MEDICATED CONFECTIONERY. Progressive firm manufacturing only highest quality products requires representatives for the following areas:—

(1) S.E. London and Kent. (2) S.W. London, Surrey and Sussex. (3) Eastern Counties. Applicants must possess initiative and drive with sound existing connections. Car an advantage. Permanent positions with maximum support, excellent remuneration and prospects offered to the right men. Consideration will be given to first-class applicants operating one other non-competing house. Replies not furnishing complete information cannot be entertained. Box 6/757.

REPRESENTATIVE WANTED to carry a toilet speciality as an additional line for an old-established house. Generous commission basis. Please state territory. Box 6/744.

MEDICAL REPRESENTATIVES. Evans Medical Supplies, Ltd., require representatives to call on hospitals and doctors in:—(a) Kent and East Sussex. (b) London, S.W., Berks, Bucks, Hants and Oxon. Ability and experience in propaganda and sales an advantage. Residence in area essential. Car provided. Applications, with full details, to Evans Medical Supplies, Ltd., Home Medical Department, Speke, Liverpool, 19.

REPRESENTATIVE. An opportunity occurs to join a manufacturer of international repute as representative in the Bristol area. Applicants must have experience in selling proprietary products to the wholesale and retail distributive trades and be under 40 years of age. The position offers scope to the right man, carries a good salary and pension. A car is provided. Write, giving full particulars to Box A/374.

REPRESENTATIVES with established wholesale and stores connection required for London, East and S.E. England and Home Counties. Generous expenses allowed and commission. Apply Universal Brush Co., Ltd., Luton.

REPRESENTATIVES calling on chemist-opticians, required in all parts of the British Isles except Scotland and North-East England. Write, giving details of territory covered and whether car owner, to Judge Optical Co., Market Sq., Holyhead, Anglesey.

REPRESENTATIVES REQUIRED to sell medical goods or toilets and perfumes. Full time or commission. Must have connection. State experience. Amblins Sales Co., Ltd., 338 Kilburn High Rd., London N.W.6.

REPRESENTATIVE REQUIRED by well-known manufacturing chemists to sell nationally advertised toilet and medicinal lines to chemists, Co-operative Societies and stores in Hertfordshire, Middlesex and part of the West London postal districts. Applicants should reside on the territory. Super-annuation scheme in operation. Car provided. Details of experience, age and salary required, to Box S.2970, Bensons, Kingsway Hall, London, W.C.2.

REPRESENTATIVE REQUIRED to fill the vacancy caused through the retirement of Mr. Bridges after 35 years' service with Cupal, Ltd. The territory consists primarily of the South Wales area where we have a substantial trade. Car provided. Pension scheme in operation. Experience essential. Maximum age of applicants should be 40. Send full details including references and photograph. Cupal, Ltd., Manufacturing Chemists, Blackburn.

REPRESENTATIVES REQUIRED, on generous commission basis, to sell attractive product unaffected by National Health Act. Must have good connection with chemists. Box 6/749.

REPRESENTATIVES REQUIRED to handle new national-advertised lip pencil on commission basis 10 per cent. High-class product, modest price, sure repeater. Box 6/756.

REPRESENTATIVES REQUIRED on good commission basis for all areas calling on private chemists, Co-ops., etc. Selling a well-known advertised proprietary medicine. Stocked by leading company chemists. D. Bee, Food Products, Ltd., Clarence House, Arthur St., London, E.C.4.

REPRESENTATIVES of proved selling ability required to call on chemists, surgical stores and clinics, with a nationally advertised line, covering the following territories:—(1) Greater London area. (2) Industrial area of South Lancashire and Yorkshire. Salary and expenses. Apply, Coates & Cooper, Ltd., Pyramid Works, West Drayton, Middlesex.

SITUATIONS WANTED

words 3/- (minimum) then 1d. per word. Box 1/-

RETAIL (HOME)

ASSISTANT DISPENSER, salesman, accustomed to manage. Elderly, unqualified. Statim. 129 Boulton Park Rd., Lincoln.

PHARMACIST, 10 years' managerial experience, requires situation. Prefers managership with option interest. Other good offers considered. Chemist, The Gables, Abbey Foregate, Shrewsbury.

WHOLESALE

REPRESENTATIVE desires change house. Winner several sales competitions and experienced sales structure. Excellent connection with wholesale and retail chemists, Co-operative stores, etc., London and Home Counties. Well-known house and progressive post only. Box 6/755.

ADVERTISER, aged 35, with 7 years experience in pressing and sugar-coating of tablets in India, returning to the U.K. as soon as passage is secured, open for engagement. Birmingham, Swanage or London areas preferred but not essential. Box 7/750.

AN EXPERIENCED TRAVELLER with sound connection amongst retail, wholesale and Co-op. chemists, prepared to offer representation on full-time basis for firm of repute. Has solid connection with doctors, nurses, clinics, hospitals and nursing homes. Box 6/752.

FIRST-CLASS REPRESENTATIVES, with outstanding connection, seeks first-class firm, London and Home counties. Excellent references. Cor owner. Box 7/742.

MEDICAL/TRADE REPRESENTATIVE, age 35, N. W. chemist, calling doctors, hospitals, chemists, S.W. England, seeks improved position with well-established and progressive house. Good knowledge of drugs and galenicals. Excellent references. Box 7/760.

REPRESENTATIVE seeks re-engagement with established house. Drugs, packed goods, sundries. 25 years' live connection South London. Age over 65. Active and alert. Box 6/747.

REPRESENTATIVE, covering South London, Surrey, Sussex and Kent, fully experienced chemists, stores, etc., requires additional line, genuine French perfume. Box 6/762.

REPRESENTATIVE, resident E. Kent, covering Southern Counties, fully experienced drugs, toiletries, sundries, chemists, Co-op. stores, etc., requires post with well-known house. Live connection. Salary, commission and expenses basis only considered. Please send full details, Box 6/621.

WELL-KNOWN Midland M.P.S. requires post as representative for first-class house, to call on chemists, doctors, dentists, hospitals. Alternatively propaganda work with the above professions would be considered. Full particulars in first instance, please. Box 240, Mundy, Gilbert & Troman, 86 New St., Birmingham.

AGENCIES

6 words 17/6 (minimum) then 4d. per word. Box 2/-

AGENT REQUIRED by manufacturers of anatomical specimens to sell these products to hospitals, institutions, etc. Generous rate of commission and permanent possibilities to right person. Write fully, in confidence, to Box 6/753.

AGENTS REQUIRED throughout Provinces except Scotland with existing sound connections with wholesale and retail chemists to carry complete range of advertised paper handkerchief tissues and toilet rolls. State area covered and frequency of journey. Write, Box 926, Sells, Ltd., Brettenham House, Strand, W.C.2.

AGENTS with first-class connections with chemists, required to handle a popular six and eight exposure roll film. Attractive discounts and commission. The Panda Film Co. (Wholesale), Ltd., 12 Laings Corner, Mitcham, Surrey.

AGENTS. Wanted on 12½ per cent. commission terms, to carry range of packed medicinals. Calling on chemists and Co-ops in Cambridgeshire, Huntingdon, Bedfordshire, Rutland, Leicester, Northampton, Buckingham, Oxford. Box A/388.

BUSINESS OPPORTUNITIES

36 words 17/6 (minimum) then 4d. per word. Box 2/-

MANUFACTURING CHEMISTS have facilities and plant available for the manufacture and/or packing of domestic, industrial or toilet products. Bottle, powder and tube filling. Frank Macowal, Ltd., 30 Loughborough St., S.E.11. Reliance 3435.

OLD-ESTABLISHED FIRM of manufacturing chemists open to consider outright purchase of, or acquisition of, controlling interest in existing businesses manufacturing branded goods. Food or pharmaceutical concerns are of particular interest. Replies will be treated in strictest confidence. Box A/394.

FOR SALE

36 words 8/6 (minimum) then 3d. per word. Box 2/-

OFFERS WANTED. 12 x 1 cwt. bags copper sulphate, 98-99%. Turner, Chemist, St. Ives, Huntingdon.

WANTED

35 words 8/6 (minimum) then 3d. per word. Box 2/-

AUTOMATIC tube-filling equipment required. Arenco, Cowles or similar. Please send full details to Box A/366.

CLEARANCE LINES of cosmetic containers, powder boxes, etc., purchased for cash. Willow Pattern Perfumery, Ltd., 20 Gloucester St., Stroud, Glos. **REQUIRED**, few tons naphthionic acid. State price, nature of packing, location and delivery. Box 6/705.

MISCELLANEOUS SALES

36 words 17/6 (minimum) then 4d. per word. Box 2/-

"ALITE" standard elevator and overhead distributor, size "E" with centre bottom outlet. With supporting framework and motor. In excellent condition, very little used; will accept reasonable offer. Also "Pascall" No. 0 blending and grinding mill. Seen London. Box 6/698.

BOTTLES, jars, medical glassware, etc. Large assortment for sale at knockdown prices. Also caps, lever lid tins, etc. Box A/379.

BOTTLES AND CAPS

Large quantities of Medical and Fancy Bottles, and Metal and Bakelite Screw Caps in all standard sizes at low prices to clear. Enquiries to Box 6/751.

Miscellaneous Sales—Continued

BOTTLE-WASHING MACHINE for sale. Dawson Hydro. Steam heated, complete with pre-soaker, 50 trays, pump filters and spares, to take any size bottles up to 11 in. high. Cost £467, only used two months. Offer invited. Rapidol, Ltd., 22 St. Margaret's Rd., London, W.7. Ealing 2836.

CASH REGISTERS. Nationals, £1 19s. 11½d. key-boards, £55. German Ankers, £45. Gross, as new, £35. Machines hired £10 p.a. Rebuilt Cash Tills, Ltd., 63/65 Rosebery Ave., E.C.1. Ter 4735.

CLEARANCE SALE. 250 gr. 4-oz. cylindrical bottles (French); 75 gr. 2-oz. double wing bottles. Any reasonable offer accepted. F. K., 7 Dawson Rd., N.W.2.

CONTAINERS, transparent, with stick-on caps, 3 in. x ½ in., tubular. One million offered. To take the lot 5/- per thousand. Great bargain. H. W. Smith & Son, 79 Hollis Rd., Coventry.

FOR SALE. "Alite" ampoule washing machine, practically unused, for sale. Can be viewed any time by appointment. Box A/395.

FOR SALE. 7 lb. rennet powder (Armour) unopened. 1 cwt. citric acid powder. Manchester district. What offers? Box 6/741.

FRENCH PERFUME BOTTLES. Chandel type with ground glass stoppers and elegant upright fancy boxes to fit. Sizes ½-oz., 1-oz. and 2-oz. Suitable for high-class perfumers packing own perfumes. Also fine quality bottles with decorative caps, each in attractive boxes, sizes 1-oz., 2-oz. and 4-oz., suitable for packing lavender or Cologne. Manufacturers' surplus to clear below cost. Box 6/699.

HAMPSTEAD. Set of optical equipment for sale, including trial case; also chemical balance; all in excellent condition. Reasonable offer accepted. Box 6/746.

IODISED GLYCERINE and blackcurrant pastilles. Bulk, 4s. 4d. lb., or attractively packed in small tins, 13s. 4d. doz. Liquorice and menthol pellets, bulk, 6s. lb., or tins in 3 doz. Display outers, 53s. 4d. gross. All prices inclusive of purchase tax. Samples sent on request. Willsons, Ltd., High Rd., Balby, Doncaster.

PROPRIETARY MEDICINE. Small but steady sales through chemists, herbalists and health food stores. Stocked by leading wholesalers and Boots. Ample packaging material and equipment. Neglected ownership to other interests. £500 plus small stock at cost. Box 6/761.

SACCHARIN TABLETS. 550 .02 gr. packed in blue envelopes: 1 to 5 gross, 56s.; 6 to 10 gross, 55s.; all boxed in gross boxes. C.O.D. or cheque with order post paid. Kale Bros., 23 St. Kilda's Rd., N.16.

STANDARD SACCHARIN TABLETS. 0.2 gr. 550, in packets of 100 tablets, boxed in 1-gross lots. 1 to 5 gross at 56s. p. gross. 6 to 10 gross at 55s. p. gross. All parcels sent free, registered post express. C.W.O. only. Quotations for larger quantities by return. Tell Products, Ltd., 22-24 Rosemont Rd., London, N.W.3.

SULPHATE OF QUININE. Surplus stock of 800 oz. Howards, B.P.C., packed in sealed 100 oz. containers. Offers to Box 6/743.

SURPLUS GERANIOL in 28-lb. tins. Best offers invited. Reply Box 6/626.

PARTNERSHIPS

36 words 8/6 (minimum) then 3d. per word. Box 2

PHARMACIST desires active partnership in good-class family business (London suburb preferred). Investment £1,000-£2,000. Age 38. 10 years' managerial experience London and provinces. Accommodation advantage. Details please: Chemist, The Gables, Abbey Foregate, Shrewsbury.

SALES BY AUCTION

2/6 per line (12 lines=1"). Box 2/

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Old-established Chemist, Pharmaceutical and General Dispensary Business, known as MORGANS

26-28 SHROPSHIRE STREET, comprising: Fitted Chemist Shop, Dispensary Store and Store Rooms on 3 Floors, together with

THE VALUABLE GOODWILL of practically a Century of Trading, with VACANT POSSESSION upon COMPLETION of the PURCHASE (Stock and Fixtures optional). Also DWELLING HOUSE at rear. In the occupation of the Qualified Manager of the above, Shop rent free by reason of his employment, together with

DOUBLE-FRONTED SHOP at £91 0 0 per annum and No. 28 Dwelling house on a weekly tenancy of 7/10 per week. The whole forming an IMPORTANT and MOST VALUABLE BLOCK, and BUSINESS CONNECTION.

BARBER & SON, F.A.I., will submit to Public Auction (Subject to Conditions, and unless previously sold by Private Treaty), at

THE CORBET ARMS HOTEL, MARKET DRAYTON, on WEDNESDAY, 5th OCTOBER, at 3 p.m. Further particulars from the Auctioneers' Offices, Wellington (Tel. 27 & 444), Stafford (Tel. 431), and Market Drayton (Tel. 2247).

PREMISES FOR SALE

36 words 8/6 (minimum) then 3d. per word. Box 2/

FREEHOLD SHOP premises with vacant possession in central position in well-known Roman Road market, suitable for all trades, especially chemists. New modern shop front, premises recently extended to depth of 40 feet. In first-class condition. Enquiries to Messrs. Moulton & Partners, 265 Commercial Rd., E.1. Stepney Green 2143.

WESTCLIFF-ON-SEA. Vacant double-fronted corner shop, unopposed, on semi-main road in large residential area (flourishing chemist's business until 1940). Accommodation comprises 2 recep., 3 bedrooms, bathroom, kitchenette. Garage space. Perfect order and decoration. Price for freehold, £3,500 (mortgage, £2,400). Sole agents: Allen, Son & Co., 162 Hamlet Court Rd., Westcliff-on-Sea. Tel.: Southend-on-Sea 45267.

STOCKTAKING

36 words 17/6 (minimum) then 4d. per word. Box 2/

QUIET AND ACCURATE workmanship. Over 30 years' practical experience. Detailed inventories supplied to suit your individual requirements. Your own stock sheets priced. Terms moderate. C. W. Playfoot, 8 Aylward Rd., London, S.W.20. 'Phone Liberty 4104.

IMPORTANT

Box Office numbers are intended exclusively for specific answers to particular advertisements and Price Lists, Trade Circulars, Samples and Printed Matter cannot be forwarded.



The Control of Scabies with

'TETMOSOL' brand TETRAETHYLTHIURAM MONOSULPHIDE

'Tetmosol' is a powerful sarcopticide, and in the forms of 'Tetmosol' Soap and 'Tetmosol' Solution has proved highly effective in both the prophylaxis and treatment of scabies.

The Solution (25%), diluted with water before use, provides a most satisfactory and certain method of treatment. It produces a rapid cure of scabies and has the advantage that its application is painless and rarely gives rise to dermatitis.

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'Tetmosol' Solution (25%). Bottles of 100 c.c., 250 c.c. and 2 litres.

'Tetmosol' Soap (5%). Single 3 oz. tablets and boxes of 36.

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Ph. 268

The
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SEPTEMBER 24, 1949

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